

FIELD Note Book

Collection

NUMBERS

No 4.

H. A. ALLARD.

4767-6103

EDWARD R. GOLDBECK

See #4895, 4896, 4897  
collected under date of May 12, 1938  
on Short Mountain, Massanutten;  
Mr. W. W. Diehl on this trip.

This material entered out of  
date under #4896 - Cetraria islandica

June 5, 1938. Collected around Hafersell  
Gap, Bull Run Mt. with Mr. Gurney, U.S.N.M.

May 8, 1938. To Devil's Hole Mt in the  
Alleghenies with J. L. Lawrence.

To Devil's Hole Mt. April 30, <sup>1938</sup> with T

Dr. F. J. Hermanns on July 30,  
1938 identified all my northern species  
from Mt. Katahdin and Mt. Washington

Allard, H. A. Mass., Me., Va., W. Va.  
1938-1939.

Book 4.

Field Notes nos. 4767 - 6103.

Cyperaceae - all  
his request. all Cyperaceal in this book  
identified by him (see lists)

Mt. Washington N.H. 6293 ft. alt.  
Mt. Katahdin, Maine = 5276 ft.  
Climb Mt. Katahdin July 4, 1938  
" even slopes of " " 5. 1938  
" to top of Mt. Katahdin " 6, 1938.  
" Mt. Washington via Tuckerman Ravine July 11, 1938  
" Mt. Washington, N.H., Tuckerman Ravine, July 13, 1938

June 26, 1938. To Hafersell Gap with T.  
walk across Castellis field to high  
knob edge field, then near old mossy  
woods ad of High Point slope  
then to car along ridge.

July 24, 1938. To Hafersell Gap ad west slope  
below High Point with T. Same  
strip made again to same areas July 31, 1938

August 13 & 14, with T. Visited Bull Run area  
in vicinity of Thoroughfare Gap ad  
Broad Run Station. stay overnight near  
wood stock. August 14, 1938 drive to old  
abandoned CCC camp on North Mt. near  
Devil's Hole Mt. ad do most of collecting  
here in low ground below spring at  
the abandoned CCC camp; alt. about 3800 ft.

{ what in Carex orales authority  
{ see #4779

Oct. 5, 1938. To Hafersell Gap (north)  
with Dr. F. J. Hermanns.

B-2-B-1

Manufactured by  
U. S. Government Printing Office  
Prinus rigida forma globosa - #5688  
(Oct. 9, 1938)

See #4895, 4896, 4897  
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on Short Mountain, Massanutten;  
Mr. W. W. Duhl on this trip.  
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Dr. F. J. Hermann on July 30,  
1938 identified all my northern Cyperaceae  
from Mt. Katahdin and Mt. Washington  
areas. He has recently come into the  
Division of Plant Exploration and  
Introduction as Associate Botanist.  
He is a very likeable and competent  
bellow it would appear.

am submitting all my Virginia  
Cyperaceae to him today, Aug 1, 1938 on  
his request. all Cyperaceae in this book  
identified by him (see lists)

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in vicinity of Thoroughfare Gap and  
Broad Run Station. stay over night near  
wood stock. August 14, 1938 drive to old  
abandoned CCC camp on North Mt. near  
- of collecting  
spring at  
alt. about 3800 ft.  
altitude

af (north)

with Dr. F. J. Hermann.

B-2-B-1

Manufactured by  
U. S. Government Printing Office  
Poa nigra forma globoza - #5688  
(Oct. 9, 1938)

Plants collected by Dr. F. J. Hermann  
coll with me in Bull Run Mt Oct. 5, 1938.

on \* 9887 *Loropetalum stipulaceum* Maxim  
old field west slope near Mrs. Corrie.

Thru \* 9888 *Aralia gracilis* Gray  
near brook west slope below White Rock.

Jun \* 9905 *Bartsia virginica* (L.) B.S.P.  
In valley road on banks north of  
Mrs. Abby's

Gay \* *Monotropa hypopitys* var. *umbra* (Trev.) Farw.  
In woods near \* 9905

al add these to my list when pub.

To: How about *Sisyrinchium bilineatum*?

1938  
from

Cyper  
liss  
ides

*Rutus laciniatus* Willd.  
= # 5614 - (Sept. 22, 1938)

\* 4216a = *Cladonia furcata* var. *ramosa* (Hoffm.) Th. Hale  
\* 5757a = *C. ciliatella* f. *ochrocarpia* Tuck. → Th. Hale  
\* 5772a = *C. " f. scyphulifera* Sandst.  
all in Bull Run Mt.

\* 4618 = *Cladonia squamosa* f. *brevicorticata* (Del.) Frans  
and (" " " *rigida* Del. according to  
Sandstede,  
on Little Stony Creek, Dent's Hole Mt.

\* 6066 *Cladonia squamosa* f. *clavariella* Wain.  
Side. Sandstede - from Bull Run Mt.

\* 5054 = *Cetraria islandica*.

See 4784 - water plant at  
Berkeley Mill.

Pure white *Primula vulgaris*  
= # 5353.

*Carex virgata* Muhl  
wooded slope at  
4767, sporting spring,  
2<sup>1</sup> above Beverley Mill  
Ident. by F. J. Hermann.

*Senecio smallii* Britton  
4768 on railroad bank at left ditto  
(<sup>31</sup>) of railroad above (west) of Beverley Mill.  
abundant; full bloom

*Oxalis violacea* L.  
" on Broad Run flood plain ditto  
above Beverley Mill  
abundant, full bloom in damp woods etc.

*Hydrophyllum virginianum* L.  
" on flood plain of Broad Run ditto  
just above Beverley at left of railroad.  
abundant here. full bloom. Only found  
locality for Bull Run area.

*Carex rosea* Schkuhr  
" flood plain on Broad Run ditto  
above Beverley Mill in moist,  
shaded woods here  
Ident. by F. J. Hermann

*Carex caroliniana* Schneid  
" Growing with \* 4771 ditto  
Ident. by F. J. Hermann

*Houstonia purpurea* L.  
" Growing with \* 4771 ditto

Bull Run Mt., Va  
Fauquier Co.,  
Thoroughfare Gap.  
May 22, 1938  
H. A. Allard.

*Euphorbiaceae*

*Tathysmalus obtusata* (Pursh.) H. S. Grotke  
= *Tathysmalus obtusata* (Pursh.) H. S. Grotke.

*Carex lurida* Wall.  
ditto

" on flood plain with \* 4774  
Ident. by F. J. Hermann

*Carex blanda* Denyer  
2<sup>1</sup> really *Poa trivialis* L. on specimen. ditto  
Growing with \* 4774: abundant.  
Ident. by F. J. Hermann.

*Carex blanda* Denyer  
ditto

" Growing with \* 4774  
and *Carex laevigata* (Kük.) Mack. Ident. by F. J. Hermann.  
= 4778A

*Juncus*  
also " on Broad Run with \* 4774 ditto  
*Juncus acuminatus* Michx. Ident. by F. J. Hermann  
= 4778A

*Carex blanda* Denyer  
ditto

*Oyperaceae*  
" Growing with \* 4774 ditto  
*Carex blanda* Denyer  
Ident. by F. J. Hermann

*Carex lurida* Wall.  
ditto

" Growing with \* 4774 ditto  
Ident. by F. J. Hermann.

*Carex laevigata* (Kirchen) Mack. Bull Run Mt., Va.  
 " damp Thoroughfare Gap.  
 on flood plain Fangman Co.  
**4781** of Bull Run Broad Run May 22, 1938  
 " in woods below H. A. Allard  
 " railroad just above Beverley Mill. (Identified by T. J. Hermann) e

**4782** *Carex laevigata* (Kirchen) Mack. ditto  
 " Growing with \* 4781 ditto  
 " ident. by T. J. Hermann. e

**4783** *Juncus macr* S. F. Gray ditto  
 " Growing with \* 4781 ditto  
 " ident. by T. J. Hermann. e

**4784** *Cladonia* ditto  
 " *Vitella* ditto  
 in stagnant pool on Broad Run  
 flood plain just above Beverley Mill. May first record of this in Bull Run area.

**4785** Note whorled Indumenta. Pool filled  
 " *Gramineas* ~~feature of a strong~~ <sup>and large</sup> stem.  
 Growing near \* 4781 ditto

**4786** *Carex grisea* Wahl. e  
 " Growing with \* 4781 ditto  
 " ident. by T. J. Hermann

**4787** *Conocephalus* ditto  
 " Hepaticae.  
 on wet bank on Broad Run  
 just above Beverley Mill.  
*Jamesoniella autumnalis* (DC.) Steph.

Bull Run Mt., Va.  
 Thoroughfare Gap  
 on wet soil bank Broad Run Fangman Co.  
**4788** just above Beverley Mill May 22, 1938  
 " H. A. Allard

Moss  
 4789 Hepatic ditto  
 " on wet bank on Broad Run just above Beverley Mill

**4790** Moss ditto  
 " Growing with \* 4788 ditto

**4791** Lichen ditto  
 " on rocks mostly submerged in Broad Run just above Beverley Mill. Hard, crustose, light ashen gray color; tentatively held on rocks, not particularly at water line.

**4792** *Crataegus crus galli* L. ditto  
 " anthers yellow  
 in meadow beyond Beverley Mill west of Thoroughfare Gap, a few blossoms still evident; mostly past fl.

**4793** *Carex annectens* Bickn ditto  
 in meadow north of Broad Run station at left of road where coaling station stands and R.R. tracks sharply bend toward The Plains.

**4794** *Carex annectens* Bickn ditto  
 all blunt B. Ident. by Hermann.  
 in same meadow or bog with \* 4793.  
 ident. by T. J. Hermann) e

*Carex stipitata* Michx.  
In bog just north of  
Broad Run station

**4795** ad next of rail road  
(2, where coaling station is ~~Thoroughfare~~  
and railroad turns sharply  
west to The Plains. (Ident. by F. J. Hermann) )

**4796** *Carex vulpinoidea* Michx.  
(2, Growing with \* 4795  
all from one clump E.  
(Ident. by F. J. Hermann) )

**4797** *Carex vulpinoidea* Michx.  
" Growing with \* 4795  
(Ident. by F. J. Hermann) )

**4798** *Carex vulpinoidea* Michx.  
(2, Growing with \* 4795  
all of clump G  
(Ident. by F. J. Hermann) )

**4799** *Carex vulpinoidea* Michx.  
" Growing with \* 4795  
(Ident. by F. J. Hermann) )

**4800** *Carex graciliscescens* Stevnd. (natty) <sup>2</sup>  
(3, In same bog with \* 4795) ditto  
(All from clump i) <sup>and</sup> *Carex grisea* Wahl.  
(Ident. by F. J. Hermann, 48004)

**4801** *Carex lurida* Wahl.  
(4, In same bog with \* 4795 ditto  
(all from clump j.)  
(Ident. by F. J. Hermann) )

*Bull Run Mt., Va*  
*Thoroughfare Gap*  
*Fauquier Co.*  
*May 22, 1938*

**4802** *Spirea latifolia*  
In meadow  
alone Broad Run  
station ad between H.G. Allard.  
" rail road ad highway from \* 55  
to Hapersell Gap. My first record of this  
in Bull Run area; not in flower; 2  
one clump, only, found.

**4803** *Sisyrinchium graminoides* Bicknell ditto  
(2, Growing with \* 4802:  
abundant, full bloom. )

**4804** *Carex laevigata* (Kirbenth) Mack. ditto  
(2, Growing with \* 4802  
Ident. by F. J. Hermann. )

**4805** *Glyceria striata* (Lam.) Hitchc. ditto  
" Growing in snake with \* 4802;  
abundant now everywhere in  
red ground; full bloom; 2  
very attractive.

**4806** *Carex lurida* Wahl.  
(2, In bog with \* 4802 ditto  
Ident. by F. J. Hermann. )

**4807** *Carex incomperta* Bickn.  
" Growing with \* 4802 ditto  
(Ident. by F. J. Hermann. )

**4808** *Carex festucacea* (Sibthorpe) Malme  
" Growing with \* 4802 ditto  
(Ident. by F. J. Hermann.  
= *C. normalis* )

*Carex granulosa* Steud. Bull Run Mt., Va  
in bog just north of Thoroughfare Gap.  
4809 Broad Run station Fauquier Co.  
" and between highway May 22, 1938  
" to Hagerell Gap rd H. G. Allard  
railroad.  
(not typical)  
(Ident. by F. J. Hermann) ) e

4810 *Lycopodium graminoides* Bicknell  
(2) Growing with # 4809 ditto  
in same meadow; abundant; full  
bloom. ) e

4811 *Carex grisea* Wahl.  
(2) Growing with # 4809 ditto  
(Ident. by F. J. Hermann) ) e

4812 *Carex granulosa* Steud. (not typical)  
(1) Growing with # 4809 ditto  
(Ident. by F. J. Hermann) ) e

4813 *Carex laevigata* (Kükenth.) Mack.  
(2) Growing with # 4809 ditto  
(Ident. by F. J. Hermann) ) e

4814 *Carex vulpinoidea* Michx.  
(1) Growing with # 4809 ditto  
(Ident. by F. J. Hermann) ) e

4815 *Carex vulpinoidea* Michx.  
(1) Growing with # 4809 ditto  
(Ident. by F. J. Hermann) ) e

*Carex laevigata* (Kükenth.) Mack. Bull Run Mt., Va  
Thoroughfare Gap  
all from one clump 2 K Fauquier Co  
Growing in bog with # 4809 May 22, 1938  
H. G. Allard  
(2) Ident. by F. J. Hermann, ) e

4817 *Carex liriod* Wahl. (var. *innata*) ditto  
(2) Growing with # 4809 ditto  
all from one clump L  
(Ident. by F. J. Hermann) ) e

4818 *Senecio smallii* Britton. ditto  
(2) In meadow with # 4809: ditto  
abundant; full bloom. ) e

4819 *Sphenopholis intermedia* (Rydb.) Rydb.  
(2) On mixed bank by Hagerell Gap road, next slope just north of ditto.  
Broad Run station. full bloom; attractive. ) e

4820 *Lonicera japonica* Thunb.  
(1) Road side at Broad Run Station ditto  
west slope; flowers reddish purple,  
as compared with those often pure white.  
abundant; full bloom in thickets. ) e

4821 *Camelina microcarpa* Andrz.  
(2) Railroad banks just above ditto  
Beverley Mill; abundant here; passing. ) e

4822 *Antennaria arvensis* L.  
(3) on railroad at Beverley Mill; ditto  
abundant here; full bloom. ) e

*Medicago lupulina* L. Bull Run Mt. Va  
Legume. bl. yellow seeds Flanquier Co.  
4823 reticulated black: Thoroughfare Gap, May 22, 1938,  
rosettes along (2) railroad at Thoroughfare Gap. H.A. Allard  
Berkeley Mill: abundant here; full bloom.

4824 *Carex sphaeroides* L. ditto  
on flood plain of Broad Run ditto  
" just above Berkeley Mill. e |  
Heads almost globose.  
(Ident. by F. J. Hermann)

4825 *Panicum basiscoides* Poir. All arable gardens  
(4) on rock garden; 3000-7th St. N. Arlington, Va.  
abundant tassling May 25, 1938  
large clumps. H.A. Allard. e

4826 *Potentilla recta* L. Near Clark station, Va  
Roadside near West Bros May 25, 1938.  
brick yard; full bloom. H.A. Allard.  
Rare in this area. e

4827 *Carex* diemont Three Mile Mt., Va  
" on stone in woods Shenandoah Co  
May 28, 1938 H.A. Allard

4828 *Amelanchier canadensis* (Medic.)  
(2) on steep ledge outcrops at top; very abundant; ripening; ditto  
fruited red e

4829 " on top of rocky outcrop; dry ditto  
*Panicum ashei* Poir. e

4830 *Umbilicaria postulata* Three Mile Mt. Va  
on dry sandstone Shenandoah Co  
May 28, 1938  
outcrops ad ledges H.A. Allard  
everywhere at top; very abundant.

4831 Moss. ditto  
" solid over on dry shale above a large hole made by *Myopotoma*  
for oval in part; in heavy shade.

4832 *Cladonia* ditto  
" reindeer moss  
Low down on north slope  
on soil

4833 Lichen ditto  
" *Peltigera* ?  
silver gray. Low down on slope  
on soil; abundant here. Have seen med with  
this sp. before

4834 *Carex vulpinoidea* Michx. ditto  
" in wet meadow at foot north  
slope near wheat & cornfield here.  
(Ident. by F. J. Hermann)

4835 *Cyperus lineatus* Michx. ditto  
(2) at foot of north slope in wet meadow near  
Story Creek. (Ident. by F. J. Hermann)

4836 *Carex swanii* (Tern.) Mack. Devil's Hole Mt. Va  
" in dry soil below Shenandoah Co  
May 30, 1938  
My Hines' sheep, no hawks ever on Little H.A. Allard,  
Story Creek. (Ident. by F. J. Hermann) e

*Carex umbellata* Schkuhr. Devil's Hole Mt., Va  
By roadside May 30, 1938  
4837 where no park H.G. Allard  
" car just below Shenandoah Co.  
Mr. Hines' place in dry soil e  
(Ident. by F. J. Hermann)

4838 Moss  
" wood road along trail down Mill Mt., Va  
Little Stony Creek, & Shenandoah Co.  
well above Coffelt's May 29, 1938  
with on soil a silvery, silvery green; very beautiful.  
4839 *Carex grandularis* Muhl Devil's Hole Mt. Va  
(3) all from clump A Shenandoah Co.  
at parking place May 29, 1938  
below Hines' house. H.G. Allard  
(Ident. by F. H. Hermann)

4840 Moss  
" in damp ravine Three Mile Mt., Va  
dew down on moist on rocks in damp ravine  
rock surfaces on north slope  
Shenandoah Co. May 28, 1938  
H.G. Allard

4841 *Cyperus lineatus* Michx.  
(2) at spring at foot of north slope in open area in  
not soil. (Ident. by F. H. Hermann)

4842 *Carex squarrosa* L.  
(6) in wet spot by spring in open at foot of north slope  
(Ident. by F. J. Hermann)

4843 Lichen  
" in damp ravine on soil. Coln ashen gray, *Peltigera*? abundant here. & ditto

Lichen -  
on rocks  
near # 4843  
4844 in same ravine  
" abundant here  
Three Mile Mt. Va  
Shenandoah Co  
May 28, 1938  
H.G. Allard

4845 *Azorella canescens* L.  
rich shaded woods on north slope half way down; abundant; full bloom; flowers hidden beneath the duff. e  
13, ditto

4846 *Ribes grossularia* rotundifolia (L.) Benth. ditto  
(2) on upper slope near *Johia* (Michx.) (Cor.) (G. B. Britton)  
ledges; scattered. (white berries at foot) e  
15, ditto

4847 *Bupleurum rotundifolij* L. ditto  
valley 15, On high way near wood stock. Great Valley Locally abundant here; full <sup>May 29, 1938</sup> Shenandoah bloom Co. H.G. Allard

4848 Mint - *Blephilia ciliata* Raf.  
(4) Purple flowered; by road side, near Mauertown on Valley like; only one colony seen. very strong in grass; stools

4849 Moss  
" in damp ravine with # 4843 on bank a brilliant silvery green with a lively green. Three Mile Mt. Va Shenandoah Co May 28, 1938 H.G. Allard

4850 Moss  
" on rocks in same ravine ditto with # 4843

Moss      Three Mile Mt., Va  
on rocks in damp, shaded ravine in Shenandoah Co., Va  
4851      May 28, 1938  
"      north slope halfway down H.G. Allard.  
This is a very damp moss around ravine  
extremely damp, shaded at right masses.

4852      Moss  
"      in damp ravine with #485 ditto  
on rocks

4853      *Carex cephalocephala* Muhl  
"      on bank near Mill Mountain trail  
Mill Mt. in woods      Mill Mountain trail  
ident. by F. J. Hermann      Mr. Coffelt's along  
"      Little Stony Creek, Shenandoah Co.  
May 29, 1938      H.G. Allard

4854      *Cladonia*  
"      Reindeer Moss.  
on trail near #4853      ditto

4855      *Carex hirsutella* Mack.  
"      damp soil on some trail  
in woods near #4853      ditto  
ident. by F. J. Hermann.

4856      Moss  
"      submerged on rocks in cold  
break flowing into Little Stony Creek.  
in woods 2 miles above Coffelt's  
bright green,      ditto

4857      *Carex acutivalvis* Schkuhr.  
"      Growing in wet soil  
near #4856      ditto  
ident. by F. J. Hermann

*Carex scutaria* Schkuhr.      Same trail from Mill Mt., Va  
in wet spot      Shenandoah Co., Va  
4858      May 29, 1938  
"      by brook 3 miles H.G. Allard.  
"      of Little Stony Creek from Coffelt's  
(Ident. by F. J. Hermann)

4859      *Carex viscosperma* Bickn.  
"      Growing in wood road ditto  
near #4858  
From same place A.  
(Ident. by F. J. Hermann)

4860      Hepatic  
"      on rocks in damp wooded ravine  
half way down north Three Mile Mt., Va  
slope; abundant.      Shenandoah Co., Va  
May 28, 1938.      H.G. Allard.

4861      Moss  
"      in damp ravine with #4860 ditto  
on rocks

4862      Moss  
"      on rocks with #4860 ditto

4863      Moss  
"      on rocks with #4860 ditto

4864      Moss  
"      on rocks with #4860 ditto

Moss  
on rocks in damp  
wooded ravine  
4865 on north slope  
" "

Three Mile Mt., Va  
Shenandoah Co  
May 28, 1938  
H.A. Allard

4866 In same ravine with  
" \* 4865 on rocks; in some ditto  
ravine above \* 4851 on green  
The only ravine I visited and explored on  
the north slopes; color a very dark green.  
4867 It grows down well into deep spaces  
between the rocks.  
" Moss.  
On rocks in same ravine ditto  
with \* 4865

4868 Canephirantella Mark.  
" On wood road just Mill Mt., Va  
above Mrs. Coffelt's on trail along  
to Mill Mt. ditto  
4869 Ident. F. J. Hermann  
" Veronica americana Schwein  
By brook just above Mrs. Coffelt's e  
(flower time) ditto  
4870 Mitchella repens L  
On bank abundant by wood road just above Mrs. Coffelt's ditto  
in Little Stony Creek.  
full flowered in fruit

4871 Asplenium montanum Willd.  
On ledge about 1 mile above ditto  
Coffelt's; growing in crevices on <sup>damp</sup> vertical  
cliffs here in deep shade; abundant here.

Moss  
On soil on wood road by Little  
4872 Stony Creek. Sonman trail of Mill Mt., Va  
" a beautiful, bright satiny green.  
Shenandoah Co.,  
May 28, 1938  
H.A. Allard.

4873 Moss  
" on rocks in brook ditto  
submerged near \* 4872  
" "

4874 Moss  
" submerged on rocks with ditto  
\* 4873 in cold brook.

4875 Medicago sativa L  
" By roadside near Great Valley of Va  
Woodstock, Va; full Shenandoah Co  
May 30, 1938  
flower; bl. blue purple H.A. Allard.

4876 Cyperus surp lineatus Michx.  
" At 1st bridge near Columbia Furnace ditto  
growing on edge of Stony Creek here  
(all from one clump) Ident. by F. J. Hermann

4877 Grass  
" Growing beside \* 4876 ditto  
(not abundant here); full flower,  
Phalaris arundinacea L

4878 Bromus commutatus Schrad.  
" On higher ground near \* 4876; ditto  
abundant by roadside near stone bridge here.

*Bromus* *elatior* L  
*Festuca* *elatior* L  
 Growing by  
 roadside, abundant, May 30, 1938  
 (2) near stone bridge H.A. Allard  
 most Columbia Furnace,  
 full bloom.  
 Growing with # 4878.

*Scirpus validus* Vahl  
 (2) Growing in mud and  
 water near # 4876 near  
 (one clump) Columbia Furnace.  
 (Ident. by F. J. Hermann)

*Carex hirsutella* Mack.  
 (3) not spot by roadside opposite  
 (N.) of Three Mile Mt., Va.  
 (all from one clump)  
 (Ident. by F. J. Hermann)

*Scirpus hirsutus* Michx.  
 (10) Growing in same watershed  
 beside # 4881.  
 (all from one clump.)  
 (Ident. by F. J. Hermann)

*Panicum basin* Poir  
 (3) on steep wooded rocky slope  
 across Little Stony Creek from Coffelt's  
 (all from one clump)

*Panicum buchananii* Ashe  
 (3) Growing below Hines near Little  
 Stony Creek where no park car

*Arrhenatherum elatius* (L.) Mert.  
 (4) Growing by roadside near  
 # 4884: very abundant here;  
 full bloom. Reflects a silvery light.

*Carex stans* Brot  
 Beside Little Stony  
 Creek where no park  
 car below Hines' H.A. Allard  
 house  
 (Ident. by F. J. Hermann)

*Carex millefolia* var. *energica* Brot  
 (11) Growing in drier ground  
 close to # 4886 C. efflagifera  
 (Ident. by F. J. Hermann)

*Luzula* Three Mile Mt. Va  
 (11) on rocks in very  
 heavily wooded damp  
 ravine; abundant  
 here.

Moss  
 (11) very dark green mats on  
 rocks with # 4888  
 abundant here.

Moss  
 (11) on rocks in same ravine  
 with # 4888; abundant.  
 a lusterless but clear green.

Moss  
 (11) Growing on rocks near # 4888

Moss  
 (11) Growing on rocks with # 4888

Mass  
on rocks in damp  
wooded ravine  
4893 (1) north slope, baby  
moss down  
a beautiful bright green species with  
a satiny sheen,  
especially beautiful.

4894 *Magnolia acuminata* L. Great Valley of Va.  
(2) Near Mr. Hines' rest of Edinburgh 10 miles  
house where no bark Sherandoah Co  
car on Little Stony Creek. May 30, 1938

4895 a large tree 2 ft thick H.A. Allard.  
50-60 feet high.  
" *Magnolia rangiferina*  
" shale at place short &  
out of where *Cetraria islandica* Massanthe Range  
normal order (date) abundant. May 12, 1938

4896 (1) *Cetraria islandica* H.A. Allard  
This lichen very abundant among the  
*Cetraria islandica* *Cetraria islandica*  
with # 4895

4897 *Cladonia*  
(1) cut formed  
growing on shale with # 4895  
(Not in order of collecting) ditto

4898 (6) *Tragopogon porrifolus* L  
(purple flowered) some with very short  
rays and deeper red-purple in color. ditto  
all from near Woodstock. May 29, 1938; many

4899 (5) with mature seed heads; very showy  
*Tragopogon dubius* Scop.  
From near # 4898; subsp. *major* (Jacq.) Tullow  
all yellow-flowered; bracts on 3 plants ditto  
(3; on two 12); opened later than the  
purple; just maturing seed; about as abundant

Three Mile Mt., Va  
May 28, 1938  
H.A. Allard  
Sherandoah Co

*Erophelia lathyroides* (L.) Mill Great Valley of Va.  
*Tithymalus* Sherandoah Co  
By roadside near May 30, 1938

4900 Hines' house near H.A. Allard  
bark car opn  
(3) Little Stony Creek; abundant here. c

4901 *Alliaria officinale* L. ditto  
(2) park car not far from # 4900  
in flower and producing tubule.

4902 *Gnoglaux officinale* L. ditto  
(3) in pasture back of Coffelt's  
at foot of Little Stony Creek.  
(abundant: full bloom)

4903 *Onobrychis Kneiffia minima* (L.) Spach.  
(1) on grounds of agriculture,  
in Washington, D.C. at  
14 and Independence Avenue  
south of 3rd St. H.A. Allard  
June 3, 1938

4904 *Potentilla recta* L. Bull Run Mt. Triassic area  
(1) Broadside and edge of street ~~grass~~ grass  
field between Hays marked June 5, 1938  
and right turn next leading H.A. Allard.  
to Antioch: abundant; full bloom here.

4905 My first record for Bull Run area  
(Not here last year, or very scarce) Prince William Co  
17 *Holcus lanatus* L. Triassic area  
abundant in old field and  
pasture and by roadside near Prince William Co  
Antioch on right as one leaves June 5, 1938  
Hays marked to Antioch route from H.A. Allard.

4906 My first record for Bull Run area  
(2) Reddish lilac suffused on tips of glumes  
grass in mass a smooth exact  
*Panicum ashei* Pers. Bull Run Mt. Va  
On cliff top of High Point. Fauquier Co. June 5, 1938 H.A. Allard

*Carex digitalis* Willd  
woods next slope below  
High Point.  
" Ident. by F. J. Hermann)

Bull Run Mts., Va  
June 5, 1938  
Fauquier Co  
H.A. Allard.

4908 *Carex cephalophora* Muhl.  
" Growing near # 4907  
" Ident. by F. J. Hermann)

4909 *Carex digitalis* Willd.  
" Growing with # 4907  
" Ident. by F. J. Hermann)

4910 *Panicum lucidum* Ashe (Vernal phase)  
" In rocky swampy ravine below  
High Point next slope, in deciduous  
woods.

4911 *Festuca obtusa* Steveng  
Gramineae  
" Near # 4910

4912 *Carex graciliscescens* Stand.  
" In pasture areas from High Point  
(west) in Plains area above *Malus glaucescens*  
Rubber grove.  
(all from one clump) abundant.  
Ident. by F. J. Hermann)

4913 *Carex millebori* var. *enervis* Boott.  
" Growing with # 4912  
abundant: usually few stemed  
individuals. Ident. by F. J. Hermann)

*Panicum lucidum* Ashe Bull Run Mts., Va  
Growing near # 4912 Fauquier Co.,  
June 5, 1938 H.A. Allard.

4914

"

*Carex cephalophora* Muhl ditto  
4915 " In deciduous woods  
south of pasture where  
*Malus glaucescens* Rubber grove  
on Plains, ident. by F. J. Hermann)

4916 *Carex hispida* Muhl

"

Growing near # 4912  
(Ident. by F. J. Hermann)

4917 *Carex cephalophora* Muhl.

"

Growing with # 4912  
(Ident. by F. J. Hermann)

4918 *Carex hispida* Muhl

"

same locality with # 4912  
(Ident. by F. J. Hermann)

4919 *Carex cephalophora* Muhl

"

Growing with # 4912  
(Ident. by F. J. Hermann)

4920 *Carex hispida* Muhl.

"

Growing with # 4912  
(Ident. by F. J. Hermann)

Gramineae

In pasture near of  
High Point on Plains  
area where *Malus glaucescens* Rehder grows.

4921 *Carex hirsutella* Mack. Bull Run Mt., Va.  
Fauquier Co., June 5, 1938  
H.A. Allard.

" *Dianthoidea compressa* Austin  
" *Carex cephalophora* Muhl. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann.) e

4923 *Sphenopholis intermedia* Rydb. ditto  
" In white oak grove near of  
High Point on Plains area; the large white oaks here. e

4924 *Carex mühlenbergii* var. *energica* Boat. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann) e

4925 *Carex mühlenbergii* var. *energica* Boat. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann) e

4926 *Carex divaricata* Mack. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann) e

4927 *Carex* *Dianthoidea spicata* (L.) Beauvo. ditto  
" with # 4921 ditto e

" *Carex hirsutella* Mack. Bull Run Mt., Va.  
Fauquier Co., June 5, 1938  
H.A. Allard.

4928 " Ident. by F. J. Hermann) e

4929 *Carex mühlenbergii* var. *energica* Boat. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann) e

4930 *Carex mühlenbergii* var. *energica* Boat. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Boat.) e

4931 *Carex bushii* Mack. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann) e

4932 *Carex mühlenbergii* var. *energica* Boat. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann) e

4933 *Carex* *Panicum schmerianum* Mack. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann) e

4934 *Carex cephalophora* Muhl. ditto  
" Growing with # 4921 ditto  
Ident. by F. J. Hermann.) e

*Panicum brachycaule* Ashe Bull Run Mt. Va.  
In pasture west of  
High Point on Plains area where *Molinia* " glaucescens" grows.

4936 *Lobelia*. ditto  
In the fine white Oak woods west of High Point.  
= *Parietaria pensylvanica* Muhl. ) e

4937 *Carex cephalophora* Muhl. ditto  
Grazing with # 4935  
(Ident. by F. J. Hermann) ) e

4938 *Carex mühlenbergii* var. *enervis* ditto  
Grazing with # 4935 Boott.) e  
(Ident. by F. J. Hermann) ) e

4939 *Carex mühlenbergii* var. *enervis* ditto  
Grazing with # 4935 Boott.  
(Ident. by F. J. Hermann) ) e

4940 *Carex cephalophora* Muhl. ditto  
Grazing with # 4935  
(Ident. by F. J. Hermann) ) e

4941 *Panicum sorgherianum* Nash. ditto  
Grazing with # 4935 ) e

*Carex cephalophora* Muhl. Bull Run Mt. Va.  
Tangier Co., June 5, 1938  
Grazing with 4935 Tangier Co.  
June 5, 1938 H. G. Allard.  
Ident. by F. J. Hermann) ) e

4943 *Panicum basii* var. *molle* (Tzey) ditto  
In woods just south of  
here \* 4935 grows; deciduous. ) e

4944 *Carex scaphioidea* Schkuhr ditto  
In wet boggy meadow along brook  
just across Koperell to Broad Run station road  
near white Oak grove and big black walnut  
tree; very wet, boggy here.  
(Ident. by F. J. Hermann) ) e

4945 *Carex vulpinoidea* Michx. ditto  
Grazing near # 4944  
(Ident. by F. J. Hermann) ) e

4946 *Carex vulpinoidea* Michx. ditto  
Grazing with # 4944  
(Ident. by F. J. Hermann) ) e

4947 *Carex scaphioidea* Schkuhr. ditto  
Grazing near # 4944  
(Ident. by F. J. Hermann) ) e

4948 *Carex vulpinoidea* Michx. ditto  
Grazing in same bog with # 4944  
(Ident. by F. J. Hermann) ) e

4949 *Carex scoparia* Schkuhr. Bull Run Mt., Va  
 In bog near Hapwell Gaf  
 road slope from High Point  
 where big plants - walnut stood H.G. Allard  
 below White Oak gone just  
 west of Hapwell to Broad Run Station  
 (Ident. by T. J. Hermann) e

4950 *Carex vulpinoidea* Michx. ditto  
 Same bog near # 4949  
 (Ident. by T. J. Hermann) e

4951 *Bromus japonicus* Thunb. ditto  
 31 In field (Castille) where stone  
 crusher was, just below quarry  
 abundant.  
 In cultivation 19 e

4952 *Juncus macr.* S. T. Gray ditto  
 " Growing with # 4951  
 (Ident. by T. J. Hermann) e

4953 *Houstonia purpurea* L. ditto  
 21 Growing with # 4951  
 abundant, full bloom: showy e

4954 *Trifolium procumbens* L. ditto  
 21 In same field; very abundant  
 in this pasture where # 4951 grows. e

4955 *Dianthus armeria* L. ditto  
 " In same field with # 4951.  
 also single, but abundant; also in  
 high brown sedge field beyond where  
 abundant, but less so than in never field. e

4956 *Carex laspiflora* Lam. Bull Run Mt., Va  
 Fangmire Co.,  
 In woods beyond June 5, 1938  
 fine brownedge H.G. Allard.  
 " fine brownedge  
 pasture beyond Castille,  
 road slope near Hapwell Gaf.  
 (Ident. by T. J. Hermann) e

4957 *Carex hirsutella* Mack. ditto  
 In high brownedge field  
 (a. scoparia) where co. finely developed  
 road slope just south of Hapwell Gaf.  
 (Ident. by T. J. Hermann) e

4958 *Carex hirsutella* Mack. ditto  
 " In same field with # 4957  
 (Ident. by T. J. Hermann) e

4959 *Carex hirsutella* Mack. ditto  
 15. Growing in same brownedge field  
 with # 4957: scattered all over  
 this splendid brownedge stand.  
 (Ident. by T. J. Hermann) e

4960 *Festuca obtusa* Sprng. ditto  
 11 In woods beyond brown sedge  
 field near # 4956 e

4961 *Panicum torulatum* Michx. ditto  
 " In brownedge field where # 4957 grew. e

4962 *Carex condita* Mack. ditto  
 In woods beyond brownedge  
 field, - ie with # 4956 e  
 (Ident. by T. J. Hermann) e

*Carex hirsutella* Mark.  
in woods  
just beyond fire  
4963 broomedge field  
" beyond Castello's,  
on west slope just south of Hopenell Bay.  
(Ident by T. J. Hermann)

*Carex lurida* Wahl.  
(4) Beside brook in bog where huge ditto  
black walnut tree grows, in near  
fine white oak grove. (Ident. by T. J. Hermann)  
Very abundant here.

*Carex vulpinoidea* Michx.  
(6) in same bog with # 4964 ditto  
abundant. (Ident. by T. J. Hermann)

*Carex laevis* (Kükenthal) Mark.  
" in same bog with # 4964 ditto  
(Ident. by T. J. Hermann)

*Juncus effusus* var. *solutus* Pers. et Trin. ditto  
(2) Tall; in same bog with # 4964  
very abundant (Ident. by T. J. Hermann)

*Dianthus armeria* L.  
(4) in same fire broomedge field ditto  
with # 4957: abundant; just bloom.

*Panicum depauperatum* Michx. ditto  
(2) Growing in same broomedge  
field with # 4957: abundant here.

*Panicum depauperatum* Michx. Bull Run Mt. Va.,  
Fauquier Co., ditto  
June 5, 1938  
H.A. Allard.

*Panicum depauperatum* Michx. Bull Run Mt. Va.,  
Fauquier Co., ditto  
June 5, 1938  
H.A. Allard.

*Sphenopholis intermedia* Rydb.  
4971 Gramineae ditto  
(2) in pasture by brook  
near Big Black walnut tree just  
west Hopenell-Broad Run highway

*Panicum depauperatum* Michx. ditto  
(1) in broomedge field with # 4957 ditto

*Carex hirsutella* Mark. ditto  
(3) in high broomedge field so  
well developed beyond Riley cabin  
beyond Castello's; abundant among clumps.  
(Ident. by T. J. Hermann)

*Carex laevis* (Kükenthal) Mark. ditto  
(3) in bog with # 4964; abundant ditto  
(Ident. by T. J. Hermann)

*Carex hirsutella* Mark. ditto  
(1) in broomedge field  
near brook where white oak grove is.  
(Ident. by T. J. Hermann)

*Bromus japonicus* Thunb. ditto  
(1) on low ground near # 4975:  
It is a very abundant grass in  
all pastures etc. in area.

*Carex vulpinoidea* Michx. <sup>Bull Run Mt., Va</sup>  
In bog near brook <sup>Tangier Co</sup>  
4977 robust & black <sup>June 5, 1938</sup>  
" tree fern, -ie just east of H.A. Allard.  
" white oak grove <sup>Ident. by F. J. Hermann</sup>)

4978 *Glyceria striata* (Lam.) Hitch. <sup>v</sup>  
(3) In same bog with # 4977: <sup>ditto</sup>  
" very abundant <sup>Ident. by F. J. Hermann</sup>)

4979 *Juncus acuminatus* Michx. <sup>v</sup>  
" Growing with # 4977 <sup>ditto</sup>  
Ident. by F. J. Hermann)

4980 *Poa trivialis* L. <sup>Graminal</sup>  
" In field near # 4977, damp <sup>ditto</sup>  
ground near brook.

4981 *Dactylis glomerata* L. <sup>v</sup>  
" Old field near # 4977, low ground: <sup>ditto</sup>  
everywhere abundant.

4982 *Bromus commutatus* Schrad. <sup>v</sup>  
" In low ground bog with # 4977: <sup>ditto</sup>  
abundant here

4983 *Carex scoparia* Schkuhr <sup>v</sup>  
(5) In same bog with # 4977, <sup>ditto</sup>  
forming large clumps.  
(all from same clump)  
Ident. by F. J. Hermann)

*Juncus macr. S. F. G.* <sup>Bull Run Mt. Va</sup>  
In same bog <sup>Tangier Co</sup>  
4984 with # 4977 <sup>June 5, 1938</sup>  
" H.A. Allard.  
Ident. by F. J. Hermann)

4985 *Carex scoparia* Schkuhr. <sup>v</sup> ditto  
(#1 In same bog with # 4977  
(5) (one clump) very abundant <sup>Ident. by F. J. Hermann</sup>)

4986 ~~Agrostis~~ *Poa trivialis* L. <sup>v</sup> ditto  
(3) In same low ground bog <sup>Ident. by F. J. Hermann</sup>  
with # 4977; abundant.

4987 *Senecio smallii* Bitter <sup>v</sup> ditto  
(3) abundant in high broom sedge <sup>Ident. by F. J. Hermann</sup>  
field beyond brook of old Riley <sup>v</sup>  
cabin S.W. of Cacapon: full bloom <sup>Ident. by F. J. Hermann</sup>  
Abundant everywhere in fields in area.

4988 *Houttuynia purpurea* L. <sup>v</sup> ditto  
(2) In same broom sedge field <sup>Ident. by F. J. Hermann</sup>  
with # 4987; abundant; full bloom.

4989 *Apocynum pubescens* R. Br. <sup>v</sup>  
Abundant in same broom sedge field <sup>Ident. by F. J. Hermann</sup>  
with # 4987; a constant <sup>Ident. by F. J. Hermann</sup>  
wasteland; full bloom or just <sup>Ident. by F. J. Hermann</sup>  
coming in.

4990 *Rosa virginiana* Mill. <sup>v</sup> ditto  
(2) In same broom sedge field <sup>Ident. by F. J. Hermann</sup>  
with # 4987; abundant here; <sup>Ident. by F. J. Hermann</sup>  
full bloom; showing.

*Pentstemon pallidus* Small Triassic area  
near Antioch.  
4991 very abundant by roadside on road leading  
ad in old field (damp) from #55 highway  
near Antioch. My first  
find in Bull Run area: June 5, 1938  
not seen here in 1937, or Prince &  
very scarce; now very abundant. William Co  
Corolla pale almost white.

4992 *Afeliniaea platynervia* (L.) Pape Bull Run Mt., Va.  
" in fine broomedge field Tazewell Co.  
beyond Riley's corner in June 5, 1938  
in place - around rocks etc. H.A. Allard  
first fern to appear, south of Hopewell Gap.

4993 *Rosa multiflora* virginiana Mill  
" in same field with # 4992 ditto  
abundant; full bloom here

4994 *Glycyrrhiza pubescens* R. Br.  
" in same broomedge field ditto e  
with # 4992; abundant; Justin Hosen  
a common constituent of broomedge fields; not in woods.

4995 *Botrychium virginianum* (L.) Sw.  
" in woods south of *Molinia glaucescens* Rehder ditto e  
abundant here and in all mode of Bull Run moss  
just shedding spores.  
also abundant on south slope Cedar High Point.

4996 *Dryopteris goldiana* (Hornb.) Gray  
" in swampy ravine west slope ditto e  
below High Point.  
Very beautiful.

4997 Lichen  
" on twig.  
on trail to Mill Mt., Va. in Alleghenies, Va.  
on trail to Mill Mt., Va. Little Stony Creek west  
beyond Coffelt's. of Columbia Timmavine,  
Shenandoah Co May 30, 1938  
(Date out of consecutive order) H.A. Allard

On soil  
in old broomedge  
fields in bare  
spaces between  
clumps. Cladonia  
apothecia red. & *vestita* f. *hanssiae* (H.A. Allard  
Cladonia ~~the trees~~ Cladonia  
4999 On soil near # 4998 ditto  
" C. grayi Mer. P

5000 On soil near # 4998 ditto  
several Cladonia *midmontensis* f. *lepidifera*  
(main) *Robtina* blue f. & *gammosa* Robbins, but  
rather doubtful

5001 Cladonia *midmontensis* Mer., but  
doubtful. ditto  
several On soil in old broomedge field  
with # 4998 ~~apothecia red~~ ditto

5002 Cladonia *cristatella* f. *beaurosi* (Del.) Rain  
On soil near # 4998 blue f. *vestita* Tuck. ditto  
apothecia red (apothecia *discolor*)

5003 Cladonia *cristatella* f. *beaurosi* (Del.) Rain  
On soil with # 4998 mostly but apothecia discolored.  
5003a and 5003b: ditto  
5003c = C. *subcariosa* f. *erecta* Rain  
5003d = C. *verticalata* (Hoffm.) Schaeff.

5004 Cladonia *cristatella* f. *beaurosi* (Del.) Rain  
On soil with # 4998 (apothecia *discolor*) ditto  
5004a. C. *cristatella* f. *vestita* Tuck. L. " ditto  
5004b = C. *apothecia* red  
5004c = C. *verticalata* f. *erecta* (The. Fir.) Stein  
5004d = C. *subcariosa* f. *erecta* Rain + C. *cristatella* Tuck

Cladonia  
\* on soil in old brownedge field.

5005 *Cladonia subcariosa* f. *erolata* (Brain) H. A. Allard  
several apothecia brown  
> *C. oxydula* var. *neglecta* f. *sinuosa* (Ach.) Harm.

5006 *Cladonia subcariosa* f. *erolata* (Brain) H. A. Allard  
several with \* 5005 (Young Hodgetia) ditto  
on soil. apothecia brown

5007 *Cladonia subcariosa* f. *erolata* (Brain) H. A. Allard  
several on soil near \* 5005 mostly ditto  
5007b = *C. mediterranea* f. *lepidifera* (Brain) H. A. Allard  
5007a = same apothecia brown mostly

5008 — *Cladonia verticillata* (Hoffm.) Schaefer  
several on soil near \* 5005 (not very definite as D form) ditto  
5008a: *C. cristatella* Tuck. (Apothecia brown)  
5008b: *C. verticillata* f. *erolata* (Th. Fr.) Stein (discolored)  
5009 *Cladonia verticillata* f. *erolata* (Th. Fr.) Stein.  
several on soil with \* 5005p. ditto

5010 *Oenothera fruticosa* var. *vera* Hook  
(5) (sundrops)  
on Triassic by roadside near Antioch, ditto  
on roadway from road #55 to Antioch, abundant full bloom

5011 *Sutellaria integrifolia* var. *typica* Epl.  
by roadside near \* 5010 ditto  
scattered full bloom; showing here, I

*Rumex obtusifolius* L  
in waste ground

5012 by roadside south of Hopewell Ga. near Broad Run Sta. Highway  
June 12, 1938 H. A. Allard  
" old mansion in wood in red slope below High Point.  
a very abundant species. ) e

5013 *Sutellaria oralifolia* var. *mollis* Epl. ditto  
" in woods just south of High Point  
brownedge field, on red slope near High Point. ) e

5014 *Sphenopholis obtusata* (Michx.) Scribn.  
in woods near \* 5013 ditto  
" scattered through deciduous woods on the slopes, but weak in making bunches  
never abundant; full bloom; delicate. ) e

5015 *Carex hirsutella* Mack.  
1/2 from high brownedge field beyond ditto  
old Riley cabin south of Hopewell Ga.  
abundant here but in few stemmed clumps. ) e  
all form (ident by F. J. Hermann)

5016 *Carex vulpinoides* Michx.  
" from small or big beside brook. ditto  
near big Black Walnut tree, a just east of old cabin near big White Oak tree. (ident by F. J. Hermann) ) e

5017 *Cladonia*  
" and *Lecotrichum albidum* (moss) short mt. 1/2  
on shale with *Cetraria islandica* Hermann 1/2  
on SW slope of Short Mt., Va June 14, 1938  
H. A. Allard )

5018 *Cladonia*  
" apothecia brown  
Growing with \* 5017 ditto  
Some *Lecotrichum albidum* with *Cladonia*

*Festuca elatior* L.  
Gramineae.  
Roadside south of  
5019 Hopewell Gap  $\frac{3}{4}$  mile  
(4) near old mansion in  
woods on west slope  
below High Point; abundant here.

*Onodea sensibilis* L.  
(2) Low ground thickets near # 5019  
Plants very large, waist high;  
abundant.

*Carex hirsutella* Marsh.  
(2) In old brown edge field near # 5019  
but west of stream and Hopewell to Broad Run  
station highway; abundant in few stunted  
clumps among the andropogons.

*Carex rosea* Schkuhr.  
(1) In old yard of old cabin, heavily  
shaded by trees. A dense pure stand  
a rod here of considerable size. mature

*Carex hirsuta* Wahl.  
(1) In bog south of Hopewell Gap east of  
old, large Black Walnut tree old cabin  
just west of Hopewell to Broad Run highway.

*Juncus effusus* var. *solutus* Fern. et Rieb.  
(3) Very abundant in large clumps  
in same bog with # 5023  
(all from same clump) ident. by T. J. Hermann

*Carex effusus* *vulpinoidea* Michx  
(3) In same bog with # 5023  
abundant; forms large, old clumps.  
(all from one clump) ident. by T. J. Hermann

*Bull Run Mt., Va*  
*Tangier Co.*  
*June 12, 1938*  
*H.A. Allard*  
*south of Hopewell Gap*  
*and on west slope beyond*  
*or across from High Point.*

*Carex vulpinoidea* Michx *Bull Run Mt., Va*  
*Tangier Co.*  
*June 12, 1938*  
*H.A. Allard*

5026 (2) Ident. by T. J. Hermann)

5027 *Carex vulpinoidea* Michx. ditto  
(4) In some bog with # 5023  
(From one clump)  
(Ident. by T. J. Hermann)

5028 *Carex vulpinoidea* Michx. ditto  
(5) all from bog with # 5023  
(all from same clump.)  
(Ident. by T. J. Hermann)

5029 *Juncus acuminatus* Michx. ditto  
(4) Growing with # 5023  
(Ident. by T. J. Hermann)

5030 *Salix nigra* Marsh. ditto  
(5) In same bog with # 5023;  
abundant here.

5031 *Apocynum cannabinum* L. B.  
(5) abundant all over high brown edge  
field beyond Riley's old cabin  
where they formerly lived.

5032 *Ceanothus americanus* L.  
(2) Growing near # 5031; rising ditto  
in as an undershrub in this brown edge  
field; abundant; full bloom.

*Lysimachia quadrifolia* L. Bull Run Mt., Va  
In high brownedge Fangier Co.,  
5033 field beyond Riley's June 12, 1938  
(41) old cabin home south H.A. Allard.  
of Hopewell Gaf: abundant; full bloom.

5034 *Sphenopholis* <sup>ka</sup>*Poa compressa* L.  
" in woods just beyond spring ditto  
at Riley's cabin at Costello's  
west slope. abundant; full bloom.

5035 *Carex swanii* (Tern.) Marks.  
" Growing near \* 5034 ditto  
Ident. by F. J. Hermann

5036 *Carex swanii* (Tern.) Marks  
" Growing near \* 5034 ditto  
Ident. by F. J. Hermann

5037 *Sphenopholis* <sup>ka</sup>*Poa compressa* L.  
" Growing in same woods with \* 5034 ditto

5038 *Carex hirsutella* Marks.  
" Growing near \* 5034 ditto  
Ident. by F. J. Hermann

5039 *Stellaria perfoliata* <sup>Griseb.</sup> DC.  
" in clearing in woods, by full bloom  
sandiest part just south of Riley's  
spring near their old cabin,  
west slope, col just south of Hopewell Gaf.

*Carex frankii* Kunth Bull Run Mt., Va  
a huge clump in Fangier Co.  
5040 yard of old cabin June 12, 1938  
Riley's lived in H.A. Allard.  
(81) just south of Hopewell Gaf.  
(Much rust on leaves)  
Ident. by F. J. Hermann

5041 *Geranium carolinianum* L. ditto  
" Growing with \* 5040  
abundant; nearly past. var. *confertiflorum* Tern.

5042 *Dianthalia spicata* (L.) Beauvo. ditto  
" Near old cabin where 5040 grew; abundant in old  
pastures.

5043 *Juncus secundus* Beauvo. ditto  
" In old pasture beyond Riley's cabin just south of  
Hopewell Gaf; abundant in these pastures  
Ident. by F. J. Hermann

5044 *Lobelia spicata* Lam. ditto  
" In old pasture with \* 5042.  
abundant here and in clearings  
and open woods; full bloom.

5045 *Dianthalia armeria* L. ditto  
" <sup>same</sup> in old pasture with \* 5042.  
Very abundant; full bloom, col in all old

5046 *Steironema ciliatum* (L.) Raf. ditto  
" in pasture (Costello's) where stone  
crusher stood, high up on slope in corn and  
wheat 3 years ago; full bloom.

*Juncus maren* s. F. Gray Bull Run Mt., Va  
in old pasture Fangier Co  
5047 (*Castellus*) June 12, 1938

" stone crusher H. A. Allard  
stood: very abundant constituent. This  
field cultivated 2-3 years ago to corn and  
wheat, then abandoned.  
Ident. by T. J. Hermann

5048 *Bromus commutatus* Schrad.  
" Very abundant in field ditto  
above with # 5047  
a common species here in old pasture.

5049 *Apocynum pubescens* R. Br.  
" abundant, just in bloom in  
old pasture with # 5047.

5050 *Cyperus strigosus* var. *georgianus* (Harper.) Brit.  
" In red spot by roadside on Triassic ditto  
area near Antioch on road from  
Hammond to Antioch; abundant.  
Ident. by T. J. Hermann

5051 *Achillea millefolium* L.  
" Growing with # 5050 ditto  
in woods on roadside near Antioch.  
Full bloom: occasional here

5052 (blows deep red-purple)  
(1) Lichen  
(Black in color)  
on low shale outcrops  
well up slope: abundant  
here; holds tenaciously to rocks.  
H. A. Allard

5053 *Cladonia*  
(cetriformed)  
On soil where *Cetraria islandica*  
grows; rather abundant.

*Cetraria islandica* L. (Beb) South end of Short Mt., Va  
Massanutten Range, June 14, 1938

5054 On Martinsburg H. A. Allard  
shales near road  
" bare or bark car; abundant  
Today Mr. W. W. Diehl and I saw  
the main colors here).

5055 *Scrophularia* *leptophylla* Bicknell South end of Short Mt., Va  
Massanutten Range June 14, 1938  
" On shales (Martinsburg) H. A. Allard  
near middle of mt. (went with W. W. Diehl)  
slope prairie abundant here; passing.

5056 *Pentstemon pallidus* Small.  
(1) Half way up main slope  
near # 5055; abundant; full in ditto  
bloom; in large clumps.  
corolla pale reddish purple.

5057 *Cneorina* *symphytum* *affine* (L.) Benth. ditto  
" (fl. small, yellow *abutinum* L.) Benth.  
On shales with # 5056; abundant; passing.  
Leaves very narrow

5058 ~~Hedysarum~~ *Blephilia ciliata* (L.) Raf. ditto  
# (1) On shales with # 5056  
abundant; in large floriferous clumps;  
in full bloom; corolla blue; habitat stated.  
a prominent shale plant.

5059 *Draba ramosissima* Desv.  
(2) Growing abundantly with # 5056 ditto  
half way up the south slope on Martinsburg  
shales; full bloom; dense bunches  
a characteristic shale plant.

5060 *Dianthus spicata* (L.) Benth. ditto  
(2) On shales well up slope  
with # 5056; scattered; vigorous  
in spite of dry soils.

PP.

*Lepidium virginicum* L. south end of Short Mt., Va  
on dry steep shale Shenandoah Co.  
half way up main Massanutton range.  
5061 slope: abundant: June 14, 1938  
full bloom. H. A. Allard  
(5) full bloom.  
an abundant plant on these shales. e

5062 *Marrubium vulgare* L.  
(1) on shale well up main slope with \* 5061 ditto  
very abundant: full bloom: in large clumps:  
a characteristic shale plant. e

5063 *Dianthus spicata* (L.) Beauvois.  
(2) on shale south slope. ditto  
e

5064 *Gramineae*: *Festuca obtusa* Spreng.  
(2) on shale near \* 5061 ditto  
scattered. e

5065 *Dianthus spicata* (L.) Beauvois.  
(1) on shale well up steep slope with \* 5061 ditto  
abundant in clumps on these large, e  
vigorous.

5066 *Bromus purgans* L.  
(1) abundant well up slope on shale: beginning to chatter: a tall, handsome, drooping species, and prominent on these shales now. ditto

5067 *Carex cephalocephala* Michx.  
(3) on steep shale leading to main slope of short pt: abundant in the open woods here. ditto  
- (Ident. by F. J. Hermann)

*Carex cephalocephala* Michx. south end of Short Mt., Va  
well down slope Shenandoah Co.,  
Massanutton range.  
5068 in shale June 14, 1938  
bare open woods: abundant; H. A. Allard. e  
woods: abundant; chattering.  
Ident. by F. J. Hermann)

5069 *Dianthus armeria* L. e ditto  
(1) on shale near wood where *Cetraria islandica* grows  
ad here in park: abundant: full bloom

5070 *Carex cephalocephala* Michx. ditto  
(1) on shale with \* 5069 e  
(Ident. by F. J. Hermann)

5071 *Agrostis arvensis* L. ditto  
(1) *Prinsepia* with \* 5069 e  
abundant here in nearly level  
grassy area: full bloom: fl. scarlet, e

5072 *Antennaria islandica* ~~neo-divisa~~ ditto  
(2) on shale with *Cetraria islandica* e  
scattered. - *Antennaria neo-divisa* Greene. e

5073 *Antennaria neo-divisa* Greene ditto  
(1) on shale with *Cetraria islandica* ditto  
abundant all over these shales of south end Short Mt. e

5074 *Carex cephalocephala* Michx. e  
(2) on shale near main slope ditto  
in open stand of tree ch.  
(Ident. by F. J. Hermann)

*Danthonia spicata* (L.) Beauvois, south end of Short Mt., Va.  
 5075 on shale soil, Shenandoah Co. Massanutton range, June 14, 1938  
 (21) of main slope: abundant; very June 14, 1938  
 vigorous clumps. H. A. Allard. e)

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5076 *Monotropa hypopitys* L. var. *laminiflora* (M. Bieb.) Dittr.  
 (1) on shale with *Cetraria islandica* (L.) Nutt. at foot of Chestnut Oak ditto  
 not common here. e)

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5077 *Illicium* ditto  
 (1) on shale with *Cetraria islandica* ditto  
 here abundant here. e)

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5078 *Bupleurum tenuifolium* L. Great Valley of Va.,  
 (10) Proside near woodstock, Va.,  
 woodstock; abundant here. By woodside June 14, 1938  
 full bloom. H. A. Allard e)

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5079 *Pentstemon laevigatus* Solander Bull Run Mts., Va.  
 (1) (12) <sup>fl. white</sup> a large colony June 14, 1938  
 in pasture just west of Thoroughfare Gap H. A. Allard  
 on Plains area in full bloom; not common. e)

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5080 (8) *Tragopogon porrifolius* L. Great Valley of Va  
 very abundant; going to a Shenandoah Co. seed, but still some flowering. Near woodstock Va.  
 flower purple; very abundant. By woodside, e)

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5081 (16) *Tragopogon dubius* L. subsp. *major* (Gouy.) Kolleng.  
 (very abundant between Strasburg and ditto  
 woodstock; full bloom; fl. yellow, e)

5082 *Aster virginicus* purpureus Nees with end of Short Mt., Va.  
 (a. *virginicus* L.) Massanutton range, Near *A. laevis* col. Shenandoah Co. June 19, 1938  
 may be a narrow leaved form, very H. A. Allard  
 " abundant on shale barren: this <sup>near</sup> <sup>at</sup> roadway where car was parked; only one in flower. e)  
 Found abundant here and elsewhere in Massanutton but mainly on dry shales.

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5083 *Draba ramosissima* Desv. e)  
 (1) well up slope on shale barren, ditto  
 abundant; some flowering still, but mostly in seed; fl. white. H. A. Allard only on shale areas here.

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5084 *Asplenium platyneuron* (L.) Oakes. ditto  
 (1) on ledges at top (Clinton sandstone and talus and conglomerate) also below on shales; abundant. e)

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5085 *Potentilla monspeliensis* L. ditto  
 (1) on shale at foot here red bud colorines are e)  
 only plant seen; fl. yellow.

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5086 *Crataegus tomentosa* (L.) Mill. var. *microcarpa* Muench.  
 flower stems, leaves, fruit pubescent. ditto  
 on shale near foot of slope proper. scattered

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5087 *Ruellia strepera* L. e)  
 (3) on route 730 from Valley Pipe ditto  
 near Short Mt. this by roadside at creek on way to Short Mt. abundant, full bloom. flowers large, showy, blue.

---

5088 (1) *Carex pumila* (L.) var. *enervis* (Benth.) e)  
 flower spikes pinkish green. At ledges on Short Mt. abundant. ditto  
 where rocky talus begins  
 (Ident. by F. J. Hermann)

*Deschampsia flexuosa* (L.) Trin. South end of Short Mt., Va  
at foot of cliffs at top: Massanittel range.

5089 (1) *Abundant here: in full bloom: not on shales below. at about 2400 ft* H.A. Allard

5090 (1) *Carex mühlenbergii var. erinacea* (Bott.) ditto  
Growing with # 5089  
abundant: alt. about 2400 ft e  
(ident. by F. J. Hermann)

5091 (1) *Bromus pubescens L.* ditto  
well of slope on shales near 1800 ft alt.  
abundant. e

5092 (1) *Gramineae: Festuca obtusa* (L.) Schreng. ditto  
well of on shales near # 5091: ditto  
abundant.

5093 (1) *Blephilia iliata* (L.) Raf. ditto  
On shales well of slope  
near # 5091; abundant; in full bloom;  
very showy blue purple flowers in large clumps. e

5094 *Brassica nigra* (L.) Koch. ditto  
On route 730 off Great Valley of Va  
The Valley Pike to Short Shenandoah Co  
Mt., Va south end June 19, 1938

5095 (1) *On route 730 off Great Valley of Va  
Shenandoah Co. Va south end June 19, 1938  
Roadside near stream H.A. Allard  
in way: abundant; full bloom. e*

(6) *Cirsium heterophyllum* (L.) Schreng. ditto  
Near road stocks, by roadside. ditto  
abundant, just opening its flowers;  
only a few plants with flower heads;  
pink purple; my first record.

*Cirsium pumilum* (Nutt.) Schreng. South end of Short Mt., Va  
Massanittel range, e

5096 (1) *On route 730 leading east from* Shenandoah Co. June 19, 1938.

(1) *just south of Valley Pike H.A. Allard*  
*W. Jackson. Big roadside in woods e  
near short mt. south end. Just in bloom;  
fragrant; fl. purple.*

5097 (1) *Aralia hispida* Vent. ditto

On top of cliffs of short mt.,  
abundant here; in full bloom.  
some plants 5-6 inches tall, e

5098 (1) *Galium latifolium* M. B. ditto e  
On top of cliffs at 2600 ft  
Leaves dotted, but stems smooth, whereas  
*G. pilosum* has dotted leaves, hairy stems.  
abundant; just in bloom; fl. purple -

5099 (1) *Deschampsia flexuosa* (L.) Trin ditto  
On top of cliffs near # 5098: ditto  
full flower: spikelets pinkish tan,  
the usual color of this; very beautiful, e

5100 (1) *Panicum basiscirum* var. *mollle* (Vasey) H. C. ditto  
teraceous, delicate species  
at 2600 ft.

(1) *Panicum basiscirum* var. *mollle* (Vasey) H. C. ditto  
at foot of cliffs at 2400 ft with # 5089 e  
stems hairy. abundant here.

5101 (1) *Pentstemon pallidus* Small e ditto  
*Pentstemon canescens* e ditto  
at top of cliffs near # 5097  
full flower; abundant also  
on shales below.

5102 (1) *Cercis canadensis* L. e ditto  
On shales on lower slope. e ditto  
abundant here on shales; some with  
distinct red pods; others with green; and  
a matter of age.

*Crataegus townsendii* <sup>2</sup> south end of Short Mt., Va  
on shale near <sup>mitior</sup> Massanutton Range  
5103 foot of main slope, Shenandoah Co.,  
(2) scattered here. June 19, 1938  
H.A. Allard

5104 *Galinus pilosum*  
(2) ~~var. *pansetum*~~ *circaegeum* Michx. ditto  
~~var. *puncticulatum*~~  
fl. white, stems glabrous, edge of leaves ciliate,  
fruit in acute bristly; leaves not dotted,  
hence as in *pilosum*.

5105 On top of slope at 2500 ft. full bloom.  
(8) ~~*Epifagus siccus* Linnaeus~~ <sup>Michx.</sup> *luteus* H. B.  
On county road #730, low, wet Great Valley of Va  
roadside shot in woods approaching Shenandoah Co.  
south end of Short Mt. June 19, 1938  
abundant here H.A. Allard

5106 *Srophularia leporella* Bicknell  
" Top of Short mountain - south end  
on high crest of ledge at 2600 ft.  
full bloom here: on shale at foot

5107 of slope past bloom  
(1) *Asclepias tuberosa* L  
Growing by roadside in woods ditto  
near # 5105 in drier soil: ditto

5108 *Asclepias tuberosa* L  
(2) By roadside on #730 leading off ditto  
from the Valley Pipe on the way to  
south end of Short Mt., Va: abundant;  
full bloom now.

5109 *Allium ampeloprasum* <sup>2</sup> *harknessii* <sup>2</sup>  
First found by Dr. S. F. Blake, Yards County, Va  
Thereafter collected by Horace T. Allard  
June 19, 1938 also visited this area: abundant  
here; full bloom a week earlier; very showy; with  
bulb heads of flowers; numerous basal bulbils.

*Phleum pratense* L.

at Riley's spring

at thin old

cabin house.

Fall bloom

Bull Run Mt. Va

Fauquier Co.

at Hopewell Cr. Caf.

June 26, 1938

H.A. Allard

5111 *Chrysanthemum corymbosum* <sup>2</sup>  
14, var. *hymatiodium* <sup>2</sup> *var. hymatiodium* <sup>2</sup> ditto  
very abundant in Castello's field  
See stone crumb stand. full bloom

5112 *Rudbeckia hirta* L  
(3) Growing in same field with ditto  
# 5111; full bloom; very abundant  
yellowing this field in places.

5113 *Juncus*  
" On thin soil at top ditto  
of ridge at Castello's quarry  
above his spring.

5114 *Thelypteris polypodioides* ditto  
(2) In woods beyond high  
Broom sedge field od oak tree  
*Quercus rubra*  
- *Dryopteris thelypteris* (Michx.) C. Chr.

5115 *Poa compressa* L.  
" In high broom sedge field on ditto  
slope beyond Riley's former cabin  
house (S.W.) abundant in thin  
scattered stands.

5116 *Hyacinth*  
" Coarse rocks and boulders in ditto  
little cold brook leading from spring  
in woods below High Point (See photo)  
Temperature of water = 56° F.

*Polystichum acrostichoides* Bull Run Mt., Va  
var. schreberi (L.) Gray <sup>rich.</sup> June 26, 1938  
5117 in woods below <sup>soil</sup> H.G. Allard  
H1 High Point, west slope sonch of Hopewell Gap  
at cold spring west slope, with  $\approx$  5116

5118 *Polystichum acrostichoides* (L.) Gray ditto  
21 Growing near  $\approx$  5117 <sup>rich. soil</sup> ditto  
very abundant.

5119 Mass  
on big boulders covering ditto  
11 then with a solid mat in  
break from spring base  $\approx$  5116 year.  
abundant: dull olive green.

5120 *Nepheta cataria* L.  
141 at foot of Castelloe's flagstone ditto  
grassy west of his house on ridge: full bloom: very abundant here.

5121 *Apoynum canabinum* L.  
141 Growing on top of grassy ditto  
where  $\approx$  5120 green: abundant here: full bloom: leaves narrow-tipped.

5122 *Apoynum androsaemifolium* ditto  
111 *Mototropa uniflora* L.  
Rich woods just below High Point, west slope: full bloom

5123 Mass  
121 On slopes covering these with ditto  
a bright, sunilluminant satiny greeness  
of pure mass.

Mass on rocks and big boulders Bull Run Mt. Va  
these, near spring Tanguay Co. June 26, 1938  
5124 near  $\approx$  5119 H.G. Allard  
111

*Chimaphila umbellata* (L.) Pursh. ditto  
5125 Found near  $\approx$  5124.  
121 abundant: full bloom: more abundant than *C. umbellata*

5126 *Quercus sambucifolia* Schneider. ditto  
15, in S.W. corner of high ditto  
a brown sedge field beyond Castelloe's  
a young, fine tree. white oak and chestnut  
oaks and red around. *alba* x *montana* (brunneum)

5127 *Ageratina heptfolia* (L.) Ehrh. on sand dunes  
121 *Honkenya* on dunes: abundant: at Princeton  
no flowers, there Cape Cod, Mass  
being rarely produced. July 1, 1938  
(*Endophyte*; introduced) H.G. Allard

5128 *Lathyrus maritimus* (L.) Bigel. ditto  
15 on sand dunes: full bloom: ditto  
abundant: fl purple.

5129   
111 on dunes near  $\approx$  5128. ditto  
not in flower: abundant:  
*Actrostaphylos* *sax-vari* spring.

5130 *Linaria canadensis* (L.) Dumort. ditto  
111 abundant on sand dunes  
etc: full bloom.  
(fl. purple)

*Rubus hispida* L. on sand dunes at  
 On sand dunes: Provincetown, Cape  
 5131 abundant; full Cod, Mass. July 1, 1938.  
 (21) bloom. e

*Calopogon pulchellus* ditto  
 (11) Low, damp spot on  
 Cap Cod sands at Provincetown,  
 abundant; full bloom. e  
 - *Limodorum tuberosum* L. e

*Aralia hispida* Vent. ditto  
 (21) abundant on dunes at ditto  
 Provincetown: also everywhere by  
 roadsides in Maine. Quebec ch: full  
 bloom. See # 5097 e

*Artemisia stelleriana* Bess. ditto  
 (11) abundant on dunes ch: passing. ditto  
 escape from gardens (Asia) e

5135 Gramineae On shore of  
 (21) in bog; abundant. Wadsworth Pond, Concord, Mass  
 July 1, 1938  
*Glyceria canadensis* (Michx.) H. & A. Allard e

5136 *Carex lurida* Wahl ditto  
 (21) Growing with # 5135 ditto e  
 (Ident. by T. J. Hermann, Assoc. Botanizing. Dir.  
 of Plant Exploration ad Introductio July 30, 1938.

5137 *Hieracium aurantiacum* M. Desert Isle, Maine  
 (41) in fields, roadsides July 3, 1938  
 etc. often in flower. H. & A. Allard  
 (orange fl.) Very showy. e  
 everywhere in north. Canada, Turkeymania  
 Barine, M. Wash. etc. full bloom

*Hieracium patens* Tausch. Desert Isle, Maine.  
 Abundant ad interesting July 3, 1938.  
 with # 5137: somewhat  
 taller; less stoloniferous roadside.  
 5138 bl: deep yellow. H. & A. Allard  
 (41) Less wide spread than # 5137, but  
 abundant in southern Maine; full  
 bloom. e

5139 M. Desert Isle; old ditto  
 (11) field; full bloom.  
 abundant. e  
 - *Pinanthes crista-galli* L. e

5140 Gramineae Mattawamkeag,  
 Penobscot Co., Maine.  
 (31) abundant in Central H. & A. Allard  
 Maine in <sup>not</sup> places by July 3, 1938.  
 roadside: spike purple: showy  
*Calamagrostis canadensis* (Michx.) Beauvois.

5141 *Juncus trifidus* L. Mt. Katahdin,  
 (21) near top: above timber line, Maine  
 line: abundant on knife edge. July 4, 1938  
 (Ident. by Hermann) H. & A. Allard e

5142 *Diapensia lapponica* L. Near top  
 (11) near top - above timber ditto  
 line: abundant: dense clusters. e  
 clustered: fl single: 3 pointed helmet calyx.

5143 *Vaccinium vitis-idea* L. ditto  
 (11) var *minus* Lodd. ditto  
 abundant; full bloom above timber line.  
 corolla deep pink.

5144 *Ledum groenlandicum* Oeder. Lodd.  
 (21) bl. white; a very showy rock  
 shrub above timberline; full  
 bloom; evergreen. e

5145 *Vaccinium uliginosum* L. Top of Mt. Katahdin, in bloom; abundant low shrub here. Maine, above timber line. e

5146 Gramine. ditto  
" silvery brown flowers and large. above timber line; abundant. Hierochloe alpina (Savat.) Poem. p. 5146. e

5147 *Carex concular* R. Br. ditto  
" High of 1st peak of Katahdin on trail from Bostler Camp; abundant above timber line. (Ident. by Hermann) e

5148 *Carephorus nescens* (Pursh) Pois. ditto  
" Growing above timber line. (Ident. by Hermann) e

5149 *Arenaria groenlandica* (L.) Stevng. ditto  
" above timber line on bleak slopes; abundant; full bloom fl. white. e

5150 *Linnaea borealis* americana Torr. ditto  
" High of Katahdin on plateau; full bloom. grass around Camp Bostler also rd. in low slopes around. e

5151 *Linnaea borealis* very strong, delicate pinkish flowers, arctic root. ~~very fragrant~~ timber line; abundant below timber line. ditto  
" High of Katahdin above timber line, (Ident. by Hermann) e

5152 *Cladonia squamosa* (Sav.) Hoffm. on Mt. Katahdin, Maine. On rocks in ravine at falls above Camp Bostler on Bostler camp trail. July 5, 1938. H.A. Allard. e

5153 Lichens ditto  
" on rocks near # 5152 e

5154 Lichens - *Cladonia squamosa* (Sav.) Hoffm. Kjerfve.  
" Near # 5152 on stumps, logs etc. 5154b. = *C. cristatella* f. *vestitata* Tuck. 5154c. = *C. squamosa* (Sav.) Hoffm. 5154d. = *C. squamosa* (Sav.) Hoffm. e

5155 *Cladonia* mixed  
" one = *C. rangiferina* ditto  
" one a brown, long, pointed type  
" Near # 5154. = *C. gracilis* var. *elongata*  
5155a = *C. rangiferina* (L.) Web. f. *sqamulosa* e

5156 *Cladonia* " *gracilis* var. *elongata* ditto  
" as # 5155 f. *sqamulosa* e  
5156a *C. rangiferina* (L.) Web. e

5157 Lichens - *Cladonia squamosa* (Sav.) Hoffm. ditto  
" Near # 5152; on soil on banks. e

5158 *Cladonia alpestris* (L.) Rabenh. ditto  
" on soil on rocks near falls above Camp Bostler. abundant; forms a knobby, coesing, very pretty; gray. e

*C. gracilis* var. *dilitata* (Hoffm.) Vain.  
*Cladonia* sp. *squamulosa* (Schaeff.) Vain. on sand, N. Katahdin, Maine.  
5159a = 5159b. on rotten log July 5, 1938  
5159 at bridge at falls 5159 H. Allard  
above Camp Baxter 5159c = 5159b. and *C. coniocraea* f. *ceratodes*  
" 5159a same as 5159 5159b. and *C. coniocraea* f. *ceratodes*  
(and *C. gracilis* var. *dilitata* (Hoffm.) Vain.  
and *C. coniocraea* f. *ceratodes* (Hoerpe) Vain.)

5166c = *C. gracilis* var. *dilitata* (Hoffm.) Vain.  
5166d = undeterminable.  
5166e = " "  
5167 = *Ptilidium ciliare* (L.) Nees.  
5167a = " "  
5167b = sterile - doubtful. Some sent to Berry, C. 22  
" 22

5160 *Lycoperdon* *daratum* L. ditto  
" Erning near # 5159  
5159h = *C. squamosa* (Scop.) Hoffm. and *C. coniocraea* f. *ceratodes*  
and *C. gracilis* var. *dilitata* (Hoffm.) Vain.  
5159j = 5159k = *C. coniocraea* f. *ceratodes* (Hoerpe) Vain.  
5159b = *Janeponiella attenuata* (Dc.) Steyer.  
5161 *Lycoperdon* *annulatum* L. ditto  
" Near # 5159

5167e, *Cladonia rangiformis* (L.) Web.

5167f. " "

5167g " "

5168 *Ptilidium ciliare* (L.) Nees.

5168a *Bazzania ciliata* (L.) Nees.

5168b " "

5168c " "

5168d " "

5168e *Cladonia rangiformis* (L.) Web.

5168f. " "

5168g " "

5168h " "

5168i " "

5168j " *Ptilidium ciliare* (L.) Nees.

5168k = *Bazzania trilobata* (L.) S. F. Gray  
+ *Orthocaulis alternatus* (L.) (Aeth.?)

5168L *Bazzania trilobata* (L.) S. F. Gray.

+ *Ptilidium ciliare* (L.) Nees.

5168N and 5168O = same as 5168L.

5162 *Linnaea borealis* " americana Turcz.  
" in flower. full bloom: very fragrant; ditto  
pink.  
These found at Mud Pond below Camp Baxter.  
Very abundant at all elevations. to near top  
of Katahdin.

5163 " *Erastostigma* ? *Aruncus gramineus* (L.) Britton ditto  
Grassing on shore of Mud Pond below  
Camp Baxter: full bloom.

5164 *Arnica mollis* var. *petiolaris* Fernald  
" yellow flowered Composite ditto  
(Arnica)  
In damp boggy ground in thickets at  
Mud Pond: full bloom

5165 *Oxalis acetosella* L. ditto  
" At Camp Baxter at foot of  
Mt. Katahdin: abundant; full bloom;  
fl. white.



Mt. Katahdin, Maine,  
July 5, 1938  
H.G. Allard

*Phegopteris polypodioides* My. Katahdin, Maine  
on Camp Baxter trail.  
July 5, 1938  
H.G. Allard.

5173 at falls above  
Camp Baxter.  
" = *Dryopteris phegopteris* (L.) C. Chr.

5174 Bryum? ditto  
" Growing with # 5173

5175 *Bazzania trilobata* (L.) S.F. Gray. ditto  
" Growing at falls above  
Camp Baxter  
masses  
Hepatic

5176 15) *Senecio robbinsii* Baker. ditto  
in damp boggy soil in Thicket  
at Mud Pond, below Camp Baxter.  
occasional: full bloom. e

5177 " *Carex peckii* E.C. Holm. ditto  
Growing with # 5176  
(ident. by Hermann)

5178 " *Silene latifolia* (Willd.) Sibth. & Sm. ditto  
at Camp Baxter. *Cyanotis* wifl. & handle  
beautifully veined calyx.  
- *S. cumbulus* wifl. e

5179 *Carex brunneoscapa* (Pers.) Poir. ditto  
" On cliff shelf at falls  
above Camp Baxter. e  
(ident. by Hermann)

Graminaceae.

5180 at Camp Baxter e  
" in woods.  
*Danthonia spicata* (L.) Beauvois.

5181 *Carex crassifolia* Fern ditto  
" Growing at Mud Pond below  
Camp Baxter  
(ident. by Hermann)

5182 *Carex crassifolia* Fern. ditto  
" Growing near # 5181 e  
(ident. by Hermann)

5183 *Carex scabriata* Schneid. ditto  
" with # 5181 e  
(ident. by Hermann)

5184 *Carex crassifolia* Fern. ditto  
at Mud Pond below e  
Camp Baxter (ident. by Hermann)

5185 ~~*Cyperus*~~ *Sisyrinchium atrocinctum* Fern ditto  
near # 5184 e  
(ident. by Hermann)

5186 *Carex scabriata* Schneid. e ditto  
near # 5184.  
(ident. by Hermann.)

5187 *Carex gynandra* Schneid. at Pond Pond July 5, 1938  
below Camp Boster. H. A. Allard.  
" (Ident. by Hermann) ) e

5188 *Carex projecta* Mack. ditto  
" with # 5187 e  
(Ident. by Hermann, ) ) e

5189 *Cyperus scirpus atrocinctus* Fern. ditto  
" Growing with # 5187 ditto  
(Ident. by Hermann) e ) e

5190 *Chionogenes hispidus* (L.) T. R. S. ditto  
" At Pond Pond - ditto  
on soil in woods -  
substrate - small leaves  
(alternate not opposite) e

5191 (Thick, grayish green  
abundant. ) e  
" Mosses ditto  
Hepatic  
Lichens  
at cliffs at falls above Camp Boster. ) e

5192 *Solidago cutleri* Fernold ditto  
" at highest point on Mt. Katahdin.  
Maine at 5200 ft. ) e  
just coming into flower  
Af timber line. ) e

5193 *Arenaria groenlandica* (Ratzeb) Schneid. ditto  
" Everywhere above timber line at  
top of mt: full bloom: dense clusters. e  
fl. whitish: completely covers the ground  
with flowers in places: leaves linear ) e

Carex

5187

"

5188

"

5189

" "

5190

"

5191

"

5192

"

5193

"

Tuf  
fl. mtn  
with fern

*Vaccinium* ?  
*uliginosum* L.

5194

"

Top of Mt. Katahdin,  
Maine, at 52 36 ft  
July 6, 1938  
H.G. Allard.

5195 *Salix phleoides*  
" *ultra-nissi* Benth  
at top ~~among~~ rocks  
above timber line  
low:

5196

" Near # 5195

Ericaceae  
shrub. *Vaccinium vitis-idaea* var. *opinaria* L.

5197

Ericaceae  
Near # 5195

= *Vaccinium uliginosum* L.

5198

*Lycopodium selago* L.

" Near # 5195

5199 *Carex concava* R. Br.

" with # 5195

(ident. by Hermann)

5200

*Cetraria islandica*

" with 5195 - abundant.

5200a = *Cladonia rangiferina* (L.) Web.

*Cladonia*<sup>2</sup>

5201 on rocks at top of Mt. Katahdin, Maine July 6, 1938 H.A. Allard at 5266 ft

" at extreme top above timber line.

= *Cladonia amaurocraea* (Flotzke) Schaer f. *oxyclada* Vain.

---

5202 *Cladonia* Moss with # 5201 ditto

---

5203 Lichens One yellowish green - foliose - very pretty Near # 5201 ditto

---

5204 Moss Lichens Near # 5201 ditto

---

5205 *Cetraria islandica* Near # 5201 ditto

5205a = *Cladonia amaurocraea* (Flotzke) Schaer. ditto

---

5206 *Cladonia rangiferina* (L.) Web. ditto Near # 5201

---

5207 *Cetraria islandica* (L.) Ach. ditto

5207a = *Cladonia rangiferina* (L.) Web. ditto

5207b. = " *amaurocraea* (Flotzke) Schaer.

*Cladonia rangiferina* (L.) Web. top of Mt. Katahdin, Maine July 6, 1938 H.A. Allard

---

5208 on soil at very top above timber line. abundant everywhere. e

---

5209 *Cladonia rangiferina* (L.) Web. ditto mostly 5209b = *Cladonia amaurocraea* (Flotzke) Schaer, 5209c = *Ptilidium ciliare* (L.) Nees.

---

5210 Moss Lichen like # 5203 ditto

---

5211 Mostly *Cetraria islandica* (L.) Ach. ditto some *Cladonia rangiferina* " " *alpestris* e (intermixed)

---

5212 Gramineae *Poa lata* Neesche. in rock crevices. ditto

---

5213 *Vaccinium vitis-idaea* var. *minima* Lodd. (Mt. cranberry) fl. deep pink. in full bloom at top. Low shrub. ditto

---

5214 *Carex trunnescens* (Pers.) Poir. ditto near # 5213. (ident. by Hermann) e

*Carex brunnescens* (Pers.) Top of Mt. Katahdin Mtns.  
in July 6, 1938  
H.G. Allard

5215 on top of  
" Cairn and  
moss plaque etc. Ident by Hermann.) e

---

5216 sphagnum  
" at G. <sup>and</sup> ~~most~~ <sup>most</sup> spring on  
plateau just below Taper in  
boggy ground.

---

5217 *Carex crassifolia* Ternall Mt. Katahdin, Maine  
" also *Juncus macr.* at Camp Baster at foot.  
at Camp site <sup>S. T. Gray</sup> July 8, 1938 e  
ident by Hermann H.G. Allard e

---

5218 *Carex intumescens* Ridge,  
" <sup>var. *ternaldii* Bailey</sup> ditto  
at camp site ident by Hermann) e

---

5219 *Poa palustris* L.  
Gramineae  
" at camp site e

---

5220 Gramineae *Aquatic tenuis* Sibth. ditto  
" at Camp site e  
fine purple panicles, soft, cap, showy.

---

5221 *Galinago tristis* L. Moosehead Lake, Maine  
" bl white.  
By roadside near Greenville, Maine. H.G. Allard e

*Campanula rotundifolia* L. Wyman Dam, Maine  
near  
an grassy bank of dam earthworks.

5222 " very beautiful, deep blue, showy:  
fully bloom var. *intercedens* (Wittasek) Farw e

---

5223 *Matricaria suaveolens*  
*matricarioides* (Less.) Poir. ditto  
" Near # 5222.  
(rayless)  
Lost or left my fine digging tool

---

5224 *Aster macrophyllus* L. Mt. Washington,  
Pinkham Notch, July 11, 1938  
" at Dolly Cof campsite H.G. Allard.  
(abundant just coming into bloom) e

---

5225 *Juncus greenei* Oakes et Tuckern. ditto  
" at camp site ident by Hermann e

---

5226 *Hieracium aurantiacum* L. July 16, 1938  
at Norton Lake, N.H.  
By roadside. very abundant weed in all fields; full  
blown (Schaefer)

---

5227 " *Cladonia leucolea* (L.) Hoffm. ditto  
in Tricherman's Ravine. July 13, 1938  
(on soil) H.G. Allard

---

5228 *Cladonia squamosa* (L.) Hoffm. ditto  
5228 <sup>var. *leucolea*</sup> with # 5227 " " "

*Hierochloe odorata* (L.) B. M. Washington, N.H.  
 Tuckerman's Ravine,  
 July 13, 1938.  
 5229 In Tuckerman's Ravine, Pinkham Notch trail  
 " " <sup>near</sup> <sub>on</sub> *ledges* *cliffs* July 13, 1938.  
 " " *a very beautiful grass.* e

---

5230 *Juncus trifidus* L. ditto  
 " " Near # 5229 ditto  
 (Ident. by Hermann) e

---

5231 *Deschampsia flexuosa* (L.) Trin. Gramineae. ditto  
 " " with # 5229 e  
 very finely delicate panicles.

---

5232 *Carex brunneoseta* (Pers.) Poir. (shad. form) ditto  
 " " Near # 5229 ditto  
 (Ident. by Mr. Hermann) e

---

5233 *Arenaria groenlandica* (Retz.) Schreber ditto  
 " " In Ravine on slopes ditto  
 very abundant: full bloom; showy. e

---

5234 *Carex concolor* R. Br. ditto  
 " " In ravine. (Ident. by Hermann) e

---

5235 *Cedron peltatum* Pursh.  
 31 *Potentilla* *peltata* *var. peltata* ditto  
 Very showy: full bloom  
 on ledges: abundant.  
 appearance of a buttercup. e

5236 *Arnica mollis* Hook. Tuckerman's Ravine:  
 on ledges etc. July 13, 1938.  
 " " full bloom. H.G. Allard.  
 (Ident. by Hermann) e

---

5237 *Carex brunneoseta* (Pers.) Poir. ditto  
 " " In ravine Ident. by Hermann. e

---

5238 Gramineae ditto  
 " " In ravine  
*Poa matensis* L. e

---

5239 *Phleum alpinum* L. ditto  
 " " In ravine. e  
 full bloom.

---

5240 *Carex brunneoseta* (Pers.) Poir. ditto  
 " " In ravine (Ident. by Hermann) e

---

5241 *Luzula hirtiflora* (Ehrh.) Desv. ditto  
 " " *var. melanocarpa* (Michx.) Benth. ditto  
 above Tuckerman's Ravine.  
 (Ident. by Hermann) e

---

5242 *Carex leptopoda* Fern. ditto  
 " " above Tuckerman's Ravine.  
 (Ident. by Hermann) e

5243 *Carex canescens* L. var. *disjuncta* Fern. *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*  
 (Ident. by Hermann) *ditto*

---

5244 *Arenaria groenlandica* (Retz.) Spreng. *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*  
 (Ident. by Hermann) *ditto*

---

5245 *Juncus trifidus* L. *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*  
 (Ident. by Hermann) *ditto*

---

5246 *Gramineae*  
 " *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*  
*Deschampsia flexuosa* (L.) Trin. *ditto*

---

5247 *Sisyrinchium bellidifolium*  
 " *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*  
*Sisyrinchium campestre* L. var. *calluna* Bigel. *July 13, 1938* *H.A. Allard*  
 (Ident. by Hermann) *ditto*

---

5248 *Carex brunneoserrula* (Pere.) Poir. *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*  
 " *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*

---

5249 *Rhinanthus oblongifolius*  
 " *Castilleja septentrionalis* Lindl. *Tricherman's Ravine* *July 13, 1938* *H.A. Allard*  
*yellowish green flowers;*  
*narrow leaves; not showy.*

*Epidotis alpinum* L. 1938, Washington, N.H.  
 on *Tuckermania Rasinetra*  
 July 13, 1938

**5250**  
 (2) small lilac flowers; H.G. Allard.  
 long slender rods  
 leaves opposite, nearly entire   
 fl. small

**5251** *Rubus triflorus* Richards. ditto  
 (1) Trailing: in *Tuckermania rasinis*.

**5252** *Veronica alpina* L. ditto  
 (1) var. malatensis C. & S. ditto  
V. wormsioldii R. & S. ditto

**5253** Orchidaceae ditto  
 (2) High up side of *Tuckermania*  
 Rasinis: fl. white: full bloom  
*Habenaria dilatata* (Pursh) Gray

**5254** Graminaceae ditto  
 (1) at Tuf. among rocks near  
 summit of Horse  
*Poa glauca* var.

**5255** mosses ditto  
 (1) Lichen  
 near # 5254  
 on ~~among~~ rocks.

**5256** *Carex canescens* L. var. disjuncta ditto  
 (1) Shore of Hermit Lake <sup>fern</sup> about 3800 ft.  
 (ident by Hermann)

Gramineae.

5257 *Trichomanes* <sup>Trichomanes</sup> <sup>in rain</sup>

" <sup>July 13, 1938.</sup> <sup>H.G. Allard</sup>  
*Calamagrostis canadensis* (Michx.) Beauv.

5258 *Carex trinervis* (Pers.) Poir. ditto

" <sup>in Trichomanes Rain.</sup>

5259 *Carex paniculata* Michx. ditto

" <sup>very abundant on shore of</sup>  
<sup>Hermit Lake at 3800 ft +.</sup>  
<sup>(Ident. by Hermann)</sup>

5260 Gramineae: *Calamagrostis canadensis* (Michx.) Beauv. ditto  
with # 5259

5261 *Carex paniculata* Michx. ditto  
at Hermit Lake in wet bog  
very beautiful with bright green perigynium  
and brown scales contracting  
~~stalakes~~ drooping <sup>(Ident. by Hermann)</sup>

5262 *Juncus filiformis* L. ditto  
at Hermit Lake. <sup>e</sup>  
<sup>(Ident. by Hermann)</sup>

5263 *Cyperus atrovirens* Fern. ditto  
on shore of Hermit Lake. <sup>e</sup>  
<sup>(Ident. by Hermann)</sup>

Mt. Washington, N.H.

Trichomanes Rain.

July 13, 1938.

H.G. Allard

Eleocharis

<sup>in rain</sup>

5264 <sup>Dense tufts</sup>  
<sup>stems very</sup>

*scirpus cespitosus* L. var. *callosus* Bigley.

e <sup>Ident. by Dr. Hermann.</sup>

5265 *Houstonia caerulea* Stev. ditto  
var. *foliorum* Benth.

" <sup>in Trichomanes rain.</sup>  
very abundant; full bloom;  
clusters pure white in dense  
clusters

5266 *Cladonia*

" <sup>on turf at 4100 ft. near tip of aerial</sup>  
trans. <sup>at east of 95 cents, high over</sup>  
forest of fir mostly; very drooped at

July 15, 1938

5267 <sup>Turf</sup> 5266a = *Cladonia squamosa* (Hedw.) Schaeff. <sup>H.G. Allard.</sup>

" <sup>*Polygonum persicaria*</sup>  
and quarry damp soil alone <sup>Bull Run Mt. Va</sup>  
Castello's homes at Hagerell Caf. <sup>Hagerell Caf.</sup>  
<sup>July 24, 1938</sup>

5268 <sup>*Persicaria mitis* Gilb.</sup> <sup>Oxalis europaea</sup> <sup>full bloom.</sup> <sup>H.G. Allard</sup>  
" <sup>firma</sup> <sup>abundant</sup> <sup>full bloom.</sup> <sup>ditto</sup>

" <sup>*oxalis europaea* <sup>firma</sup> <sup>gymosa</sup> (L.) Willd. <sup>July 24, 1938</sup>  
near # 5267 <sup>abundant</sup> <sup>full bloom.</sup> <sup>ditto</sup></sup>

5269 *Galium triflorum* Michx. ditto  
thickets at Castello's quarry alone. <sup>abundant</sup>  
abundant; full bloom. <sup>e</sup>

5270 *Chrysopodium vulgare* L. ditto

" <sup>abundant; full bloom</sup>  
with # 5269; fl. rose-pink. <sup>ditto</sup>  
common in thickets. <sup>e</sup>

*Pyrenatheremum ineanum*  
in thickets at Castello's  
grassy above his house:  
5271 abundant: full bloom  
" *Koellia pyrenatheremoides* (Lam.) Knize ) e

5272 *Solanum carolinense* (L.) B. S. P. ditto  
" at above grassy: abundant: full bloom ) e

5273 *Angelica canadensis* (L.) B. S. P. ditto  
" same locality with # 5271  
abundant: full bloom ) e

5274 *Galinus circassianus* Michx. ditto  
" same locality with # 5271  
: abundant in woods: passing ) e

5275 *Acalypha virginica* Griseb. a. Gray. ditto  
" at above grassy: a common weed;  
often red throughout in autumn ) e

5276 *Genn. canadense* J. C. R. ditto  
" at above grassy: abundant. ) e

5277 *Oxalis europaea* forma cymosa (L.) R. Br. ditto  
" at above grassy,  
abundant: full bloom, ) e

Bull Run Mt., Va  
Hagerell Gap.  
July 24, 1938  
H. G. Allard  
Fauquier Co  
" ) e

*Angelica canadensis* (L.) B. S. P. Bull Run Mt., Va  
at Castello's grassy July 24, 1938  
above his house. H. G. Allard  
abundant in woods etc. Fauquier Co  
" ) e

5278 ditto  
" ) e

5279 *Sanicula canadensis* L. ditto  
near # 5278.  
abundant in woods etc. ) e

5280 *Polygonum hydropiper* (L.) O. K. Sch. ditto  
" same spot near # 5278.  
abundant: full bloom.  
leaf: drooping racemes, whitish: achenes dull. ) e

5281 *Setaria lutescens* (Reig.) Hubb. ditto  
" at above grassy: on  
abundant grass now. ) e

5282 ditto  
" Large serrate, ovate leaves.  
inflorescence umbellate.  
in thickets at above grassy.  
*Aralia racemosa* L. ) e

5283 *Bidens bipinnata* L. ditto  
" at above grassy: abundant:  
full bloom on ledges in open etc. ) e

5284 *Meconia undiformis* DC. ditto  
(2) *Dennstaedtia* *undulata* (L.) High Point, ditto  
woods: red slope below High Point.  
Very abundant in woods: full bloom; a  
conspicuous feature of undergrowth with Hog Pea and. ) e

*sericeocarpus asteroides* (L.) Benth. Bull Run Mt., Va

woods near slopes below <sup>B.S.P.</sup> Hapenell Gap

July 24, 1938

5285 High Point. abundant; full bloom H.G. Allard

" " Fangier (e)

5286 *Monotropa hypopitys* ditto

" near # 5285 *hypopitys lamigera* (Miq.) Nutt.  
full bloom.

5287 *umbelliferae* *Angelica villosa* (Milt.) B.S.P.

(3) Open woods growing on <sup>humus</sup> <sup>soil</sup> ditto  
clearing, near slope, below High Point.  
smooth; fl. white like wild carrots; tall. (e)

5288 *Crotalaria sagittalis* L. ditto

" old brown sedge field near Hapenell - Broad Run Station highway  
abundant in some dry areas; damp  
passing.

5289 *Hypericum dentatum* (L.) <sup>humulaceum</sup> (Lam.)

" in old field near <sup>humulaceum</sup> <sup>soil</sup> *Prunus rigida* ditto  
" form *globosa* grows.  
full bloom; abundant.

5290 *Prunella vulgaris* L.

(2) in old field last year in wheat; very abundant ditto  
now; full bloom; abundant in  
deciduous woods; cart roads etc. (e)

5291 *Dianthus carota* L.

" with red flowers; occasionally ditto  
seen in white fields, old fields  
with # 5290. (e)

*Rudbeckia hirta* L. Bull Run Mt., Va

July 24, 1938  
old field at Hapenell Gap Hapenell Gap

5292 near *Prunus rigida* H.G. Allard

" form *globosa* very Fangier (e)  
abundant in old fields; full bloom (e)

5293 *Lactuca canadensis* L. ditto

" old field near # 5292  
abundant; full bloom (e)

5294 *Paspalum pubescens* Muhl. ditto

" in old field near # 5292 (e)

5295 *Panicum sphaerocarpon* Ell. ditto

" near # 5292 (e)

5296 *Oxalis corniculata* L. ditto

" with # 5292  
fl. yellow abundant in old brown sedge  
field here. (e)

5297 *Polygala verticillata* L. ditto

" in same old field with # 5292; ditto  
full bloom (e)

5298 *Pastinaca sativa* L. ditto

(2) Edge of thickets in old field  
just beyond Castellus; large colony  
here; full bloom; fl. yellow. (e)

*Cornus stolonifera* Stev. Bull Run Mt., Va  
in fence row <sup>amongst</sup> thickets <sup>Hill</sup> Hopewell Gap,  
below Castello's. July 24, 1938

5299

"

July 24, 1938  
H.G. Allard

Fauquier Co

*Sida spinosa* L. Bull Run Mt., Va  
July 24, 1938

5306 In old broomedge Hopewell Gap. Fauquier Co  
pasture there many H.G. Allard  
(2) small cedar grove far beyond Castello's  
near ravine ad brook from Riley's  
old cabin

5300 *Sassafras variifolium* Kuntze ditto  
(2) Near # 5299. The largest in  
Bull Run Mt., ie 8 ft in circumference at  
breast height. Very beautiful, shapely tree.

5301 *Plantago aristata* Michx  
(4) abundant in patch way made by ditto.  
trunks travelling to a road left in dense  
broomedge pasture near old Riley cabin. Here  
did not extend on either side of tracks but tracks  
leaves had killed sedge, but very abundant here.

5302 (5) *Mentha spicata* L  
in red sedge by brook below Castello's ditto  
field where stone crusher was situated - on  
lane leading to Riley's old cabin; full flower

5303 *Carex luscida* Wahl  
" in same red sedge with # 5302 ditto  
(ident. by F. J. Hermann)

5304 *Apocynum cannabinum* L  
(3) old pasture (broomedge) beyond ditto  
Castello's at Hopewell Gap.  
abundant: full bloom

5305 *Oenothera biennis* L  
(2) Old field where small cedars ditto  
are abundant beyond Castello's, near  
one *Pinus nigra* in field.  
very abundant: full bloom.

5307 *Chondrilla juncea* L ditto  
(5) Growing in waste land in  
pasture below Castello's near # 5299.  
My first record for Bull Run Mt.  
full bloom, one or two heads only.

5308 *Solidago* *juncea* Ait ditto  
(3) In old broomedge field near ditto  
\* 5306: scattered: just coming  
into bloom

5309 *Solidago* *angustifolia* (L.) P. B. ditto  
(2) In old broomedge field where  
*Pinus rigida* var *globosa* grows.  
abundant here: full bloom: very deep red,  
pink, shiny: very fragrant: buds home white till

5310 *Auratus viridiflora* (Raf.) Eaton ditto  
(2) In old field with # 5309: scattered ditto  
on the high brown sedge field in: general:  
full bloom

5311 *Polygonatum* *multiflorum* (L.) Huds.  
(2) In old field beyond Castello's - ditto  
broomedge woods, west slope  
below High Point - deciduous.  
common in old broomedge fields.

5312 *Aralia racemosa* L ditto  
" in thicket at Castello's quarry: ditto  
full bloom.

~~5312~~ *Thlaspi heucheriifolium* (L.) Pers. Bull Run Mt., Va  
*Hedwigia integrifolia* (L.) Schrad. in thickets and Hoperell Gap, July 24, 1938  
5313 *Castilleja gracilis* (L.) Allard July 24, 1938  
(2) very abundant, full bloom. H.A. Allard  
Under of hemlock forest. Tianguis Co

5314 *Cirsium humile* (Vahl.) Streng. ditto  
(3) In old field beyond Castilleja near  
old last year (1937) wheat field now  
covered with wild carrot.  
Passing bloom: scattered.

5315 *Tolmiea canadensis* L. Bull Run Mt., Va  
" In damp rich woods where July 31, 1938  
crossed from High Point trail H.A. Allard  
to ridge. *Castilleja gracilis* is on  
locally abundant - 3 ft. just coming  
into flower here. Tianguis Co.

5316 <sup>5315</sup> *Lilium liliifolium* (L.) L.C. Rich.  
Panicum walteri Poir.  
(4) On top of High Point cliff in the  
soil in exposed places: abundant.

5317 *Carex virens* Muhl.  
(2) In woods near foot of High Point cliff ditto  
west slope: only specimens seen: few  
carices at this season.  
Ident. by F. J. Hermann  
Aug. 3, 1938.

5318 *Agrimonia rostellata* Wallr.  
In rocky woods just below ditto  
High Point, west slope: scattered: ditto  
full bloom.  
(fl. yellow)

5319 *Boehmeria cylindrica* (L.) Linn.  
(3) In swampy, wet woods below ditto  
High Point, west slope: abundant:  
full bloom.

*Habenaria clavellata* (Michx.) Streng. Bull Run Mt., Va  
in moss and Tianguis Co  
5320 sphagnum in July 31, 1938  
(1) swampy woods by H.A. Allard  
stream below High Point, red slate below  
west slope: full bloom; local; not abundant.

5321 *Lactuca canadensis* L. ditto  
(2) Old field, damp soil just west of Hoperell to Broad Run Sta. highway  
nearly opposite High Point: abundant;  
full bloom.  
(fl. yellow)

5322 *Salix sericea* Marsh ditto  
(4) along brook in wet ground  
which flows from Big Black walnut tree  
across Hoperell to Broad Run station  
highway - nearly opposite High Point.

5323 *Luzula sibirica* silkly beneath.  
(4) *Scleria paniciflora* Muhl ditto  
In old pasture near # 5322  
abundant here

5324 *Cyperus ovalis* (Michx.) Torr. ditto  
(3) Growing with # 5323  
scattered here. (Ident. by F. J. Hermann)

5325 *Polygonatum multiflorum* (Walt.) Kretzsch. ditto  
(3) Old pasture near # 5323. <sup>Spadix</sup> <sup>fl. white</sup>  
abundant here; full bloom.

5326 *Sabatia angularis* (L.) Pursh. ditto  
(1) Old broadridge field across from  
High Point ad just west of Hoperell to Broad Run  
station highway.  
(Near # 5323) full bloom; showy;  
locally abundant; very fragrant.

*Panicum amethysteum* Michx. Bull Run Mt., Va  
In old pasture damp soil Flannier Co. July 31, 1938  
5327 near old cabin areas H. G. Allard.  
Hopewell to Broad Run Station highway;  
abundant; forms large patches, excluding other species.  
full bloom.

5328 *Monarda fistulosa* L. e  
(1) In damp spot across same ditto  
wood way above old road  
\* 5327. Large colonies here; full bloom. e

5329 ~~Asclepias syriaca~~ L. e  
\* In snale across Hopewell to ditto  
3) Broad Run Station highway near old black walnut tree; full bloom now. common. e

5330 *Agrimonia parviflora* Benth. ditto  
(2) In low ground near old cabin ditto  
just west of black walnut tree areas  
Hopewell to Broad Run Station highway  
very abundant here; just coming into bloom.  
(wood high; bl. yellow.) e

5331 *Setaria lutescens* (Weig.) Hubb. e  
In old field near cabin and large ditto  
black walnut tree (now dug up)  
areas Hopewell to Broad Run Station highway  
south of Hopewell Gap; scattered. e

5332 *Cyperus strigosus* L. e  
In snale near \* 5329 ditto  
along banks at black walnut tree  
creek. (Ident. by F. J. Hermann) e

5333 *Sagittaria pubescens* Michx. ditto  
In snale with \* 5332. e  
Not abundant.

*Mimulus ringens* L. Bull Run Mt., Va  
In snale with \* 5333: Flannier Co. July 31, 1938  
5334 full bloom. H. G. Allard. e

5335 ~~Helianthus tripliotatus~~ L. ditto  
\* <sup>Staphis</sup> Growing in old pasture,  
damp ground just east of Hopewell to  
Broad Run Station highway and  
near *Pinus rigida* forma *globosa* (Rein.) e

5336 ~~Cassia biocarpa~~ Tegnald. ditto  
In low ravine near \* 5335.  
full bloom; showy. abundant. e

5337 *Ipomoea carnea* (L.) Meyer. ditto  
In old knowledge pasture where  
*Pinus rigida* forma *globosa* grows:  
full bloom; abundant. e  
(Brown dung of a root, 4 ft deep weighing  
52 lbs.)

5338 ~~Solidago~~ <sup>Graminifolia</sup> ~~canadensis~~ <sup>canadensis</sup> Pursh. ditto  
In old wheat field (1937) where lone tree  
*Pinus rigida* grows, near large *Tulip* tree  
Poplar tree 15 feet in air. colony here  
in full bloom. e

5339 *Hypericum punctatum* Lam. ditto  
In old field with \* 5338. e  
abundant in old wheat field (1937) e

5340 *Liatris inflata* L. ditto  
In last grass wheat field (1937) bare ditto  
\* 5339 green; abundant below e  
wild carrot very abundant here; full bloom.

*Panicum brachneae* Ash. Bull Run Mt. Va  
In old wheat field where <sup>July 31, 1938</sup> Tanquier Co  
covered with wild carrot <sup>1937)</sup> H.A. Allard

5341 " very abundant here below  
wild carrot stratum. (See notes) ) e

5342 *Vernonia glauca* (L.) Willd ditto  
(2) In old broomedge pasture near  
old Riley cabin south of Hagerell Gap. ) e  
ad west of Castello's.  
abundant here: full bloom.

5343 *Commelinia communis* L. ditto  
(2) roadside below Castello's,  
Hagerell Gap damp soil. ) e

5344 *Eleocharis obtusa* (Willd.) Schultes. ditto  
" growing by roadside in wet ditch e  
below Castello's, Hagerell Gap. ) e  
Ident. by H.A. Allard; confirmed by T. J. Hermann

5345 *Oxalis corniculata* L. <sup>europaea</sup> <sup>temp. aymosa</sup> (Sweet) Meg.  
(2) roadside in grass <sup>old</sup> fence ditto  
near at Hagerell Gap, between  
Castello's and Ovens' here in park e  
car: abundant; full bloom.

5346 *Juncus acuminatus* Michx. (multiporous form)  
(2) Beside railroad just  
above Beverly Mill  
in wet soil and water. ) e  
Ident. by T. J. Hermann

5347 *Hypericum ascyron* L.  
(2) Damp soil beside # 5346 ditto e  
abundant in damp ground.

5348 *Sarothria gentianoides* L. Bull Run Mt. Va  
on railroad Tanquier Co.  
just above Bealeton Mill: H.A. Allard  
abundant; full bloom. Thoroughfare Gap,  
(orange weed) ) e

5349 *Verbena hastata* L. ditto  
(blue vervain)  
(2) In wet snake along Broad Run  
near by Broad Run Station: e  
abundant; full bloom

5350 *Panicum brachneae* Ashe ditto  
" in same snake with # 5349 e  
very wet, low along Broad Run.

5351 Gramineae *Panicum agrestoides* Streng. ditto  
" in snake with # 5349  
only one specimen found here.  
purple form.

5352 *Scintellaria integrifolia* var. *typica* Chl. ditto  
" same snake with # 5349  
abundant here; just flower. ) e

5353 *Primula vulgaris* L. ditto  
" in a farm with blue, snow white  
flowers; first I have ever seen) ) e  
in snake with # 5349; blue form  
abundant here) ) e

5354 *Panicum brachneae* Ashe ditto  
Low ground with # 5349. ) e

*Galium asprellum* Michx. Bull Run Mt., Va  
 " in wet snake Aug. 7, 1938  
 along Broad Run Fauquier Co.  
**5355** near Broad Run station H.A. Allard  
 " abundant; full bloom.  
 fl. white.

**5356** Euphorbiaceae.  
 foliage reddish ditto  
 " on railroad (dry) just above Broad Run Station  
 abundant *Chenopodium maculatum* (L.) small.  
*Euphorbia supina* Raf. e

**5357** *Elephantopus carolinianus* Willd.  
 " in woods at shooting spring ditto  
 just above Beverly Mill besides railroad.  
 full bloom; frequent. e

**5358** Labiateae = *Teucrium canadense* L.  
 " in snake with # 5355: ditto  
 abundant; nearly past flowering; fl. rose-pink e

**5359** *Hypericum limosum* Lam. ditto  
 " with # 5355  
 abundant; full bloom. e

**5360** Labiateae  
 " in same snake with # 5355 ditto  
 abundant; full bloom  
*Kewelia blepharosa* (Walt.) MacM. e

**5361** *Galium tincturum* L.  
 " in snake with # 5355 ditto  
 abundant; full bloom. e

Bull Run Mt., Va  
 Aug. 7, 1938  
 H.A. Allard  
 Thoroughfare Gap.  
 Fauquier Co. e

**5362** in snake along Broad Run just west of Broad Run station; very red.  
 " hard haying.  
*Lysimachia terrestris* (L.) B. & P. e

**5363** *Verbena urticacaeifolia* L. ditto  
 " (white version)  
 " in same snake with # 5362 e

**5364** *Eleocharis acicularis* (L.) R. & S. ditto  
 " in mud and water of Broad Run  
 nearly west of Broad Run station e  
 (here an extensive bog here  
 abundant here; not clumped — this  
 (ident. by F. J. Hermann) area.

**5365** *Helianthus giganteus* L. ditto  
 " along railroad just above Broad Run station; just in flower.  
 fl. light yellow. e

**5366** Euphorbiaceae - *Euphorbia prostrata* (L.) Guss. ditto  
 " on railroad just above Broad Run Station  
 abundant; full bloom. e

**5367** *Andropogon furcatus* Michx. ditto  
 Beside railroad just above Broad Run station.  
 " May first record for Bull Run area.  
 uncommon here. e

**5368** *Diodia teres* Walt. ditto  
 " on Railroad just above Broad Run station;  
 abundant; full bloom. e

*Polygonum aviculare* L. Bull Run Mt., Va  
Aug. 7, 1938  
Along railroad just  
above Broad Run Station. Thoroughfare Gap.  
H.A. Allard  
abundant; full bloom. Flanagan Co.

5369 (3) abundant; full bloom.

5370 *Oxalis stricta* L. ditto  
On railroad just above Broad Run Station; ditto  
" abundant; full bloom.

5371 *Hedera helix* (L.) Pers. ditto  
On railroad just above Broad Run Station.  
" very abundant; full bloom.

5372 (1) On railroad just above Broad Run Station; abundant. ditto  
(3) (lvs. very leafy, small).  
*Amphicarpaea polystachya* Raf. e

5373 *Cynodon dactylon* (L.) Pers. ditto  
" On railroad bed just below Broad Run Station. ditto  
scattered here; in bloom.

5374 *Cuscuta cefhalanthri* Engelm. ditto  
" on *Hedera helix* (L.) Pers.  
and on *Bidens bipinnata* L.  
Beside railroad just above Broad Run Station.  
abundant; full bloom.

5375 *Oxalis stricta* L. ditto  
Beside railroad near Broad Run Station; abundant.

*Digitaria sanguinalis* (L.) Scop. Bull Run Mt., Va  
Aug. 7, 1938  
On railroad at Broad Run Station. Flanagan Co.  
abundant. H.A. Allard.  
abundant; full bloom. atne Thoroughfare Gap.

5376 (2) .

*Poinsettia* e

5377 *Emblema dentata* (Michx.) Small. ditto  
" On railroad just above and  
at Berkeley Mill; abundant here; full bloom.

5377a - *Poinsettia cuthbertina* (Engelm.) Small. e  
My only record in Bull Run area?

5378 *Chamaesyce preslii* (Guss.) Arthur. ditto  
" On railroad near Broad Run Station. ditto  
abundant; full bloom.

5379 *Stenophyllum capillaris* (L.) Britton. ditto  
" on railroad above Broad Run Station ditto  
Very abundant here in almost pure stands  
in cinders etc. Ident. by H.A. Allard (confirmed by T.J. Hermann).

5380 *Eragrostis pectinacea* (Michx.) Nees. ditto  
Grasses.  
" Low tufted, grayish on railroad  
bank, very abundant at Broad Run Station ditto

5381 *Eragrostis spectabilis* (Pursh) Steud. ditto  
(4) On railroad just above Berkeley Mill ditto  
abundant; in bloom.

5382 *Cynodon dactylon* (L.) Pers. ditto  
(2) On cinders on railroad  
near Broad Run Station. ditto  
abundant; flowering.

*Agrimonia parviflora* L. Bull Run Mt., Va  
In damp meadow Island Tianguis Co  
5383 on Broad Run just August 7, 1938  
" above Thoroughfare H.A. Allard  
" Gaf. above R.R. leaves Thoroughfare Gaf.,  
cut - meadow low ground on left  
here; very abundant; full bloom. e

5384 *Eupatorium coelestinum* L. ditto  
" 1 in snake along Broad Run  
near (west) of Broad Run Station, e  
a low area all the way to the cooling station  
at bridge above Broad Run Station; abundant  
5385 here; full bloom; fl. purple, showy.  
(2) *Lycopus americanus* Michx.  
In same snake with # 5384 ditto  
abundant; full bloom. e

5386 *Mimulus ringens* L. ditto  
" 1 Same snake with # 5384; abundant; ditto  
full bloom. e

5387 *Scirpus validus* Vahl  
(2) same snake with # 5384. ditto  
small colony only.  
(Ident. by F. J. Hermann) e

5388 *Scirpus cernuus* (L.) Thunb.  
(3) same snake with # 5384. ditto  
Very abundant here.  
(Ident. by F. J. Hermann) e

5389 *Brassicaceae*. ditto  
" same snake with # 5384  
very few plants; fl. yellow.  
*Radicula palustris* (L.) Moench. L. e

*Penthorium sedoides* L. Bull Run Mt., Va  
Same snake with # 5384 Tianguis Co  
5390 Tall herb; shortly serrate Aug. 7, 1938  
leaves; flowers in a terminal H.A. Allard  
(4) panicle, whitish or yellowish above  
Thoroughfare Gaf. e

5391 *Asclepias speciosa* ditto  
same snake with # 5384  
" very abundant here  
- *A. pulchra* Clark. e

5392 *Cephaelanthus occidentalis* L. ditto  
" 1 same snake with # 5384.  
abundant here on Broad Run; e  
here not found at elsewhere. e

5393 *Plantago aristata* Michx. ditto  
" 1 On railroad near Broad Run Station  
abundant here. e

5394 *Polygonum* ditto  
" 1 same snake with # 5384.  
abundant; full bloom; fl. white.  
- *Persicaria punctata* (Ell.) Small. e

5395 *Lindernia attenuifolia* L. ditto  
" 1 same snake with # 5384  
abundant; full bloom. e

5396 *Crotalaria sagittalis* L. ditto  
" 1 On railroad just above Broad Run Station.  
Leaves very narrow;  
full bloom. e

*Epilobium coloratum* Muhl. <sup>Bull Run Mt., Va</sup>  
in shade just above <sup>Aug 7, '93</sup> <sup>Frangmier Cr</sup>  
5397 Broad Run Station <sup>H.G. Allard</sup>  
(1) along Broad Run <sup>Barroughgate Gap</sup>  
creek. on left of railroad.  
(full bloom; abundant here.)

5398 *Cirsium lanceolatum* (L.) Hill. <sup>ditto</sup>  
(1) in some meadow near <sup>ditto</sup>  
\* 5397: very abundant; rising  
well into bloom; tall, rank.

5399 *Scirpus polyphyllus* Vahl. <sup>ditto</sup>  
(3) along Broad Run in <sup>ditto</sup>  
red soil near Broad Run Station.  
(Ident. by F. J. Hermann)

5400 *Scirpus cyperinus* (L.) Kunth. <sup>ditto</sup>  
(2) shade on Broad Run above <sup>ditto</sup>  
Beverley Mill on left where stream  
leaves cut and rocks.  
(Ident. by F. J. Hermann)

5401 *Mentha cardica* Gerarde <sup>ditto</sup>  
(2) shade near Broad Run station, <sup>ditto</sup>  
along Broad Run where it leaves  
the cut and rocks above Beverley.  
full bloom: bluish fl; not abundant.

5402 *Lindernia palustris* (L.) Ell <sup>ditto</sup>  
(4) *Lindernia palustris* L. <sup>ditto</sup>  
in water near # 5401  
abundant here. As one walks  
from Beverley to Broad Run station, and  
crosses the railroad cut, this is low ground  
on left on Broad Run. is shade here.

5403 *Anagallis arvensis* L.  
(3) Primrose  
By railroad above Beverley Mill. <sup>ditto</sup>  
abundant; full bloom.

*Crotalaria glandulosa* L. <sup>Bull Run Mt., Va</sup>  
on railroad at <sup>Frangmier Cr.</sup>  
just above Beverley <sup>Aug 7, '93</sup> <sup>38</sup>  
5404 Mill. Abundant here: <sup>H.G. Allard</sup>  
(1) only record in Bull Run area.

5405 *Koellia nivea* (L.) Kunze <sup>ditto</sup>  
(2) on railroad bank in thicket <sup>ditto</sup>  
just above Beverley Mill; abundant;  
full bloom.

5406 *Sonchus asper* var. *glabrescens* <sup>Brumf. & Sch.</sup>  
(1) Rail road near Beverley Mill. <sup>ditto</sup>  
full bloom; bright yellow heads.

5407 *Cyperus strigosus* L. <sup>ditto</sup>  
(1) red soil by railroad near <sup>ditto</sup>  
Beverley Mill  
(Ident. by F. J. Hermann)

5408 *Cyperus glaucens* <sup>ditto</sup>  
(1) red soil by Railroad at Beverley Mill <sup>ditto</sup>  
(Ident. by F. J. Hermann)

5409 *Acalypha virginica* <sup>gracilis</sup> A. Gray. <sup>ditto</sup>  
(2) Rail road near Beverley Mill. <sup>ditto</sup>  
very abundant.

*Chamaesyce* <sup>ditto</sup>  
5410 *Cassia micracanthos* (L.) M. Vahl. <sup>ditto</sup>  
(3) Rail road near Beverley Mill; <sup>ditto</sup>  
abundant; full bloom; fl. small;  
Leaves closely closely when struck, so we can see  
motion.

Euphorbia

on railroad

5411 near Beverly Mill.

Bull Run Mt., Va

August 7, 1938

Tangier Co.

H.A. Allard

" Poinsettia euphorbiformis (Engelm.) Small.

5412 Oxalis europaea forma apomicta (Wall.) Eng.

#1 Railroad just above Beverly Mill. ditto

Abundant: full bloom.

5412a: O Xalis stricta L.

5413 Hypericum gentianoides

Railroad near Beverly Mill. ditto

" Abundant: full bloom

= S another gentianoides L.

5414 Medicago lupulina L

Railroad at Beverly Mill.

131 full bloom: only locality in this area.

5415 Chenopodium album L.

" by Railroad near Beverly Mill. ditto

5416 Echcharis obtusa

" red soil by railroad just above Beverly Mill: abundant.

5417 Aponogeton flaccidus L.

" wet spot by railroad at Beverly Mill.

Bull Run Mt., Va

Tangier Co.

H.A. Allard

" near Thoroughfare Gap.

Paspalum pubescens Bull Run Mt., Va

Tangier Co.

5418

"

By railroad at Beverly Mill

August 7, 1938

H.A. Allard

Thoroughfare Gap

5419

"

Leersia argyroides (L.) Sw. ditto

131

red soil just above

Beverly Mill by railroad

) e

5420

"

Sparganium euycarpum ditto

#1

in mud and water on left of

Broad Run just above cut

(9)

at Thoroughfare Gap going toward

Broad Run station: abundant.

) e

5421

"

Carex frankii Smith ditto

151

in red soil along Broad Run

just above where railroad leaves

Thoroughfare Gap: in small at left where railroad

leaves cut: abundant.

, I dent. by T. J. Hermann

) e

5422

"

Sagittaria mesoacraea Michx. P. Bush ditto

141

in water and mud in small

along Broad Run at left just

above Broad Run station

) e

5422a

" same as above ) = 5422

) e

5423

"

Sagittaria latifolia <sup>pubescens</sup> Muhl.

" <sup>pubescens</sup>

ditto

) e

5424

"

Dianthera americana L.

ditto

not in flower; past flower, but

for a record.

) e

*Tenorema canadense* Bull Run Mt., Va  
Mint.

Fairview Co.

August 7, 1938

5425 bl brick. Near Thoroughfare Gaf.  
(2) In small on Broad Run Hl. Allard  
just west of railroad above  
Broad Run station: passing.

5426 *Commelinia communis* L.  
(3) on bank beside railroad ditto  
near Bremen Mill: abundant:  
full bloom. ) e

5427 *Alisma plantago* <sup>subcordatum</sup> *agrestis* L.  
(1) In small of mud and water ditto  
just above Thoroughfare Gaf.  
on Broad Run: not abundant;  
full bloom. ) e

5428 *Gophera petiolata* L. Rusby.  
(1) <sup>Parvifloria</sup> in meadow and along railroad ditto  
just above Thoroughfare Gaf.  
very abundant: full bloom. ) e

5429 *Rhynchospora* <sup>whittetata</sup> <sub>(Michx.)</sub> <sup>glomerata</sup> <sub>(Vahl.)</sub> var. *minor* Benth.  
Den's Hole Mt., Va

(3) In damp low spot at Sherandoah Co.  
Gaf below abandoned CCC camp. Damp spot at Gaf  
a dense pine area here very beyond 3 mile mt.  
abundant. (Ident by F. J. Hermann) August 14, 1938

5430 *Juncus effusus* L. var. *solutus* Tern. <sup>et wieg.</sup> *albiflorus* &  
Corning beside # 5429 ditto  
Large clumps. (Ident by F. J. Hermann) ditto  
Damp soil. (seeds without tails) ditto

5431 *Juncus macrourus* S. F. Gray  
Growing near # 5429. e  
abundant. (Ident by F. J. Hermann) ditto  
(seeds without tails)

*Lycopodium virginicum* L.  
same low spot with

5432 \* 5429. leaves deciduous at abandoned CCC camp  
(4) purple beneath. in Gaf beyond 3 mile mt.  
Alleghenies.) e

5433 *Juncus marginatus* Host. ditto  
(2) Growing with # 5429 e ditto  
(seeds without tails.) (Ident by F. J. Hermann) e

5434 *Juncus maueri* S. F. Gray. ditto  
(2) Growing with # 5429 e ditto  
(seeds not tailed) (Ident by F. J. Hermann) e

5435 *Eupatorium sessilifolium* L. ditto  
(1) on trail at top and along Den's Hole Mt.; abundant; full bloom e

5436 *Pyrantherum viscarium* Michx. ditto  
(2) On same dry ridge with # 5435  
abundant: full bloom on trail here. e

5437 *Thysocarpus ornifolius* (L.) R. Br. ditto  
(2) On same dry rocky ridge west with # 5435; abundant here.  
dry? e

5438 *Cladonia* ditto  
(1) On bank on dry ridge west with # 5435; abundant.

*Affemis montana* Willd. Devil's Hole Mtn., Va  
on dry cliff shelves  
5439 shaded from sun August 14, 1938  
at very top, cold H. G. Allard. alleghenies  
" far from water.  
Rock a red sandstone apparently  
cold shelving. a number of clusters  
here.

5440 *Juncus macr.* s. T. Gray.  
" Growing in damp soil near ditto  
abandoned CCC camp at Gap beyond e  
3 mile mountain near peak of Devil's Hole  
Ident. by T. J. Hermann

5441 *Juncus marginatus* Rostk.  
" Growing with # 5440 ditto  
Ident. by T. J. Hermann

5442 *Cyperus strigosus* L.  
" Growing with # 5440 e ditto  
Ident. by T. J. Hermann

5443 *Juncus subcandatus* (Engelm.) Gmel. ditto  
" Growing near # 5440 e ditto  
Ident. by T. J. Hermann

5444 *Juncus marginatus* Rostk.  
" Growing near # 5440 e ditto  
Ident. by T. J. Hermann

5445 *Juncus cuminatus* Michx.  
" Growing with # 5440 ditto  
Ident. by T. J. Hermann

*Pyrrosia glomerata* Devil's Hole Mtn., Va  
var. minor Pittman Alleghenies  
Same spot at Shenandoah Co  
5446 abandoned CCC camp August 14, 1938  
" at Gap beyond 1/2 of H. G. Allard.  
of 3 mile Mtn., Va., near of Edinburgh.  
(Ident. by T. J. Hermann)

5447 *Juncus macr.* f. *anthelatus* (Mieg.) Hermann ditto  
" near # 5446  
(Ident. by T. J. Hermann)

5448 *Juncus marginatus* Rostk. ditto  
" near # 5446  
(Ident. by T. J. Hermann)

5449 *Juncus macr.* f. *anthelatus* (Mieg.) Hermann ditto  
" same locality with # 5446  
(Ident. by T. J. Hermann)

5450 *Juncus macr.* s. T. Gray. ditto  
" same locality with # 5446  
(Ident. by T. J. Hermann)

5451 *Juncus marginatus* Rostk. ditto  
" same locality with # 5446  
(Ident. by T. J. Hermann)

5452 *Juncus subcandatus* (Engelm.) Gmel. ditto  
" same locality with # 5446  
(Ident. by T. J. Hermann)

*Juncus marginatus* Rost. Devil's Hole mt., Va  
at abandoned CCC camp Shenandoah Co  
at Gap beyond 3 mile mt., August 14, 1938  
5453 in moist soil. H.A. Allard.  
(2) (Ident. by T. J. Hermann) *Alleghenies* e

5454 *Juncus macr. f. antebellum* (Mieg.) ditto  
(1) same locality with # 5453 (T. J. Hermann) e

5455 *Eleocharis obtusa* Willd. ditto  
(4) at same net spot with # 5453: ditto  
abundant here e

5456 *Juncus marginatus* Rost. ditto  
(2) same locality with # 5453 and ditto  
(Ident. by T. J. Hermann) e  
5456A - *J. subcaudatus* (Engelm.) Coghill  
e Blake

5457 *Cyperus strigosus* L. ditto  
(4) same lower spot with # 5453 ditto  
(Ident. by T. J. Hermann) e

5458 *Hibiscus ovalifolius* Benth. ditto  
(2) Snale in left of road e Near Columbia  
to Columbia Furnace several miles west  
of Edinburgh in Shenandoah valley,  
along Little Stony Creek. Shenandoah Co  
very abundant; full bloom. H.A. Allard.  
August 14, 1938

5459 *Pilea pumila* fontana (Linnell) Rydb. ditto  
(3) same snale with # 5458. August 13  
(Ident. by T. J. Hermann) e  
Aug 26, 1938.

*Scirpus cpperinus* (L.) Knobt. Bull Run mt., Va  
in snale just *Franquiers* Co  
above Broad Run station August 13, 1938  
5460 along Broad Run; H.A. Allard  
(2) abundant  
(Ident. by T. J. Hermann) e

5461 *Sagittaria pubescens* Muhl. ditto  
in snale close to road  
(2) just North of Broad Run station: e  
very abundant here: just in flower.

5462 *Gaura biennis* L. ditto  
(4) Dry road side bank just west  
of Thoroughfare Gap: A large, branching  
bush 6 ft high: leaves yellowish white &  
turning reddish; not abundant here  
some on Mason area near Thoroughfare.

5463 *Quercus alba* L. Allard's yard  
(4) (all from same tree) 3000-7th St. N.  
Arlington, Va  
August 18, 1938  
H.A. Allard

5464 *Quercus alba* L. ditto  
" from a different tree.  
leaves coarser. e

5465 *Rudbeckia triloba* L. Short Mountain,  
(5) in low ground along Massanutten Range,  
Shenandoah Co. Valley Pike on road from August 19, 1938  
below Mt. Jackson to Short Mt. H.A. Allard  
abundant; full bloom. e

5466 *Liatris scariosa* Willd. ditto  
(3) street shades (dry) near roadside  
where re-preserved. just in bloom.

Mass. In woods  
(thin) in Cetraria islandica colony.      South end of Short Mt., Va  
Massanthes Range,  
Shenandoah Co.  
August 19, 1938.  
H.G. Allard.

5467      "      *cladonia* P      ditto  
"      On shale in thin woods      ditto  
"      near Cetraria islandica colony

5469      *cladonia*      ditto  
"      Same locality with # 5468      ditto  
"      (fig.)

5470      *Khania eupatorioides* L      e ditto  
"      On dry shales below cliffs:      ditto  
abundant: full bloom but missing  
(cream white bl.)      at Signal Knob  
a typical shale barren plant.      e

5471      *Commelinia erecta* L      ditto  
"      On shale well of short Mt. here;  
abundant on all these shales  
throughout: a typical shale barren plant.  
full bloom.      e

5472      *Sutellaria parvula* (L.) Leonardi Cpl.      ditto  
"      On shale slope well of mt.      e  
near # 5471

5473      *Quesnelia mahnidii* Ashe      ditto  
"      (2)      across peculiar in being  
very long on this tree. cap 1.8 cm across  
across 2.7 base to top e  
" 1.5 migrating from summer.

Quesnelia mahnidii      South end of Short Mt., Va  
"      (1)      (moparia Ashe) Shenandoah Co.  
On shale barren      August 19, 1938.  
below cliff. H.G. Allard

5474      abundant; across on shale slope below  
"      normal, not on long cliffs. H.G. Allard.  
as in # 5473. very prolific; trees  
multiple stemmed. 10-15 feet high. e  
a common shale barren tree.

5475      *Quesnelia mahlbergii* Engelm      ditto  
abundant on the shales below the  
"      cliffs; full fruit but young, much less  
mature than the rock chestnut oak  
also here. Especially abundant here;  
some badly maledered. e

5476      *Quesnelia pruinosa* L      ditto  
"      abundant in scrubby form on  
the shale barren here) e

5477      *Eragrostis pectinacea* (Burm.) Nees      Front Royal,  
"      Growing on sidewalks Warren Co., Va  
on a street in Front Royal; August 19, 1938  
very vigorous. e

5478      *Quesnelia rubra* L mopping Ashe      ditto  
"      (3)      On shales with # 5475 etc.  
(Below cliff on shale prairie but  
all over the mountain to the cliffs) e

5479      *Quesnelia mahnidii* Ashe      ditto  
"      On shales below cliff; e  
across long as in # 5473 e

5480      *Quesnelia mahnidii* L mopping Ashe      ditto  
"      (2)      across and cups large;  
proportionately shorter and e  
thicker than # 5473 & # 5479.  
on shale barren with # 5479

*Bidens tripartita* L. South end of Short Mt., Va.,  
on cliffs and Massannten Range.

5481 rocks at extreme Shenandoah Cr  
(4) top of ridge at August 19, 1938.  
2700 ft. some flat rocks with thin e  
soil (horizontal) covered with poor stand of  
small plants among mosses. <sup>1/1</sup> areas left them moist.

5482 *Empetrum sessilifolium* L. ditto e  
on top of cliff at 2700 feet, ie ditto e  
highest point on this ridge; full bloom;  
abundant.

5483 Moss. On top of cliff at 2700 ft ditto e  
" On large horizontal rocks of 8-10 ditto  
sqm feet with # 5484 with which it was  
competing. This rock covered entirely with

5484 a fine covering of these two mosses.  
" Moss a beautiful bright green moss  
growing on same flat rock with # 5483, ditto  
competing with it

5485 *Balium latifolium* Michx  
" on top of cliff near # 5482 ditto  
full bloom: in fruit: abundant;  
but not on shale below. This habitat on  
cliffs above shade one of deciduous, dry woods.

5486 *Polygonum tenue* Michx  
(3) On barren shales below cliff. ditto  
scattered here, e

5487 *Allium cernuum* Ruth e  
" On barren shales and shale ditto  
cliffs below upper cliff; abundant.  
full bloom: a typical shale plant  
here in very barren places.

*Selaginella rupestris* (L.) Brongn. South end of Short Mt., Va.  
Massannten Range.

On barren shales and Shenandoah Cr  
shale outcrops August 19, 1938  
below cliff; H.A. Allard  
" abundant; gray green like a moss;  
oppressed. e

5489 *Bouteloua curtipendula* (Michx.) Torr. ditto  
(3) on shales directly below cliffs; ditto e  
one patch about 1-2 sq ft in area;  
full bloom; my first record for Virginia

5490 *Celtis occidentalis* <sup>crassifolia</sup> L. ditto  
(3) on shales just below peak  
of Clinton sandstones: abundant  
here, but scrubby. e

5491 *Quercus prinus* L. ditto  
(Rock Chestnut Oak)  
" on barren shales near # 5490; e  
abundant: fruitful.

5492 *Quercus rubra* L. <sup>lengii</sup> Engelm. ditto  
" on barren shales near  
# 5490; abundant; fruitful,  
but acorns less advanced than  
*Quercus prinus*. None thus far  
brought it only on south end  
of Short Mt.

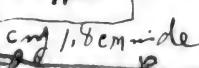
5493 *Carduus acanthoides* L. Great Valley of Va.  
(5) Abundant by roadside, e Shenandoah Cr  
near Woodstock: still on Valley Pike  
blooming but mid season earlier - August 21, 1938  
" in June. H.A. Allard.

5494 *Hedysarum stolonosum* Bull Run Mt., Va.  
(3) In low grass just Fangmeyer Cr.  
beyond Thorongate Gap, on rough road. August 21, 1938  
The right of defiles very rough road. Much *Rudbeckia laciniata* here. H.A. Allard.  
also, fl. with deep yellow comp. with *B. laciniata*

*Houstonia tenuifolia* Nutt. Three Tuf Mts., Va. west slope  
on barren shales Shenandoah Co.  
on ridge beyond Massapucket Mts.  
5495 (2) farm where we August 21, 1938  
lived on Pugh's Run H.A. Allard  
road: abundant; still bloom on rocky upper slopes. e

5496 *Amelanchier polygonoides* Raf. ditto  
(2) On Shale shales (but, barren) ditto  
with # 5495, forming extensive  
pure stand patches; also in woods  
above: full bloom. Honey bees visit these  
tiny flowers, finding them readily.  
5497 *Setaria viridis* (L.) Beauvois.  
(2) On barren shales where ditto  
little else grows; near # 5495  
scattered over these. e

5498 *Quercus rubra* Britton  
(2)  acorn like ditto  
on barren shales ditto  
2.5 cm with # 5495; abundant,  
low, scrubby - 10-15 ft. high;  
productive; abundant all  
way up mountain to top. e

5499  *Isanthus brachiatus* (L.) B.S.P.  
On barren shales above the steep cliff ditto  
scrub; abundant here: full bloom. 2 m  
first record for Va. a typical shale plant. e

5500 (3) *Carex frankii* Kunth.  
In cellar of old abandoned ditto  
house at foot of mt. near door. e  
a large clump here. (Extensive thickets  
of vine berry here) sent by F. J. Hermanns

5501 *Heuchera sanguinea* (L.) Benth. ditto  
var. *lilacina* Darb.  
In pasture thickets near old house mentioned  
for # 5500; abundant. e

*Crataegus pruinosa* (L.) K. Koch Three Tuf Mts. west slope, Va.  
Mass-dunstable Range.  
1 fruit ripe, crimson. Shenandoah Co.  
a large colony on cliff. August 21, 1938  
5502 cliffs at very H.A. Allard  
(3) Top of ridge, old fruiting heavily; e  
very showy with crimson fruit.

5503 *Quercus prinus* L. ditto  
" On upper slope at Tuf just e  
below # 5502.  
Dominant sh. with Red Oak: fruiting  
berries. 5504 *Litchi grossularia rotundifolia* (Michx.) Cop. & Britt  
(2) (goatberry) ditto  
on upper slopes on exposed e  
sunny sides: scattered and more or  
less general.

5505 *Tilia glabra* (Milt.) Hach Britton  
(4) On barren shales with # 5503, ditto e  
here abundant but low - 10-20 ft., scrubby;  
bearing prolifically; a true shale species  
here, even where little soil on cliff.

5506 *Clitoria mariana* L. ditto  
(3) abundant, full bloom on shale e ditto  
barren here, where steep, loose,  
bearing large, purple flowers.  
very showy: a shale lover.

5507 *Lobelia* near Woodstock, Va  
(3) (bl. pink) e Roadside on Valley Pike  
Calamintha nepeta Link H.A. Allard.  
August 21, 1938

5508 *Spiranthes ciliata* Lindl. ditto  
" in old field near ditto  
old abandoned house where e  
# 5501 grew.

*Juncus scirpoideus* Lam Bull Run Mt., Va  
begin. in low ground August 28, 1938  
H.A. Allard

5509 along overgrown  
below chestnut tree Prince William Co.  
spring at Allen's (negro) cabin, east slope.  
This beyond Mrs. Ashby's (nest)  $\frac{1}{2}$  e  
(Ident. by F. J. Hermann)

5510 *Rhynchospora capitellata* (Michx.) Vahl. <sup>var. *capitellata* (Michx.) Vahl.</sup> ditto  
(4) growing abundantly with # 5509 - ditto  
along low area here.  
(Ident. by F. J. Hermann)  $\frac{1}{2}$  e

5511 *Solidago nemoralis* Ait ditto  
(1) Old field near Allen's cabin - ditto  
just west of # 5509: abundant: full bloom  $\frac{1}{2}$  e  
Ronald

5512 *Solidago graminifolia* var. *mitallii* (Greene) <sup>var. *mitallii* (Greene) Ronald</sup> ditto  
(1) Dry old field: growing beside ditto  
# 5511: abundant: just coming  $\frac{1}{2}$  e  
into bloom

5513 *Eupatorium hyssopifolium* L ditto  
(3) Dry thicket in cut over woods ditto  
east slope just above Allen's chestnut tree  
spring: abundant here: full bloom.  $\frac{1}{2}$  e

5514 *Smilax rotundifolia* L. ditto  
(1) same thicket with # 5513 ditto  
abundant: fruit green yet.  $\frac{1}{2}$  e

5515 *Lobelia spicata* *infusa* Michx ditto  
(4) Same thicket with # 5513 ditto  
abundant: full bloom: fl. blue.  $\frac{1}{2}$  e

*Sphagnum* Bull Run Mt., Va  
North of Antioch -  
Prince William Co.  
August 28, 1938  
H.A. Allard

5516 in some thickets  
with # 5513: a  
seepage spot here on ditto  
(1) an otherwise very dry, rocky steep mountain slope; practically  
dry moss: but moss healthy.  $\frac{1}{2}$  e

5517 *Lespedeza hirta* (L.) Hornem. ditto  
(3) in some thickets with # 5513: ditto  
abundant here and on dry rocky rounded  
ridge above: full bloom; fl. crimson  $\frac{1}{2}$  e

5518 *Lespedeza frutescens* (L.) Britton ditto  
(3) in some thickets with # 5513: ditto  
abundant: full bloom: in dry  
woods above on crest etc: fl. purple  $\frac{1}{2}$  e

5519 *Populus grandidentata* Michx. ditto  
(2) on crest of dry ridge in burn  
on easternmost ridge just west of ditto  
Ashby's: abundant: these leaves  
very pointed.  $\frac{1}{2}$  e

5520 *Dennstaedtia* *leptophylla* DC ditto  
(4) on hillside in thickets and young ditto  
growth of pines (Va) *rigida* and  
*chinquapin* just S.W. of Allen's: abundant  $\frac{1}{2}$  e  
on all dry ridges here: full bloom: fl. purple  
just in flower: tall: slender to head high.  $\frac{1}{2}$  e

5521 *Mettenia lineata* DC. <sup>*Mettenia lineata* DC.</sup>  
(2) ~~*Mettenia lineata* DC.~~ <sup>*Mettenia lineata* DC.</sup> <sup>*Mettenia lineata* DC.</sup> ditto  
Growing with # 5520: <sup>*Mettenia lineata* DC.</sup> <sup>*Mettenia lineata* DC.</sup> <sup>*Mettenia lineata* DC.</sup>  
abundant: full bloom. On these (ridges)  $\frac{1}{2}$  e  
dry wooded ridges generally. fl. purple.  $\frac{1}{2}$  e

5522 *Mettenia dilleni* Dark. ditto  
(2) in same locality with # 5520: ditto  
abundant: full bloom: fl. purple.  $\frac{1}{2}$  e

In shale between Great Valley of Va  
Edinburgh and Columbia Shenandoah Co.  
Furnace. (Plants) Sept. 5, 1938 e  
5523 of same colors coll. H.A. Allard  
Aug. 26, 1938  
Pilea See # 5459 - *Pilea fontana* (L.) Rydb.  
- *Pilea fontana* (L.) Rydb. (ident. by T. J. Hermann  
P. *Paronychia fastigiata* var. *muilla* (Wood) Fernald.  
5524 *Amphiastrium montanum* Shenandoah Mts. # 5529 West Va., Hardy Co.  
18, on dry shale slopes Sept. 5, 1938  
where road side was built out H.A. Allard  
at top of mountain - a fine stand  
nearly closed; plants very large.  
5525 *Surpuz apiculatus* var. *pelius* Fern. (ident. by Dr. F. J.  
Hermann 9-8-38)  
31. Damp spot by roadside Spruce Knob,  
at 4400 ft Pendleton Co.,  
West Va.  
abundant. Sept. 5, 1938  
H.A. Allard  
5526 Moss.  
" Damp spot in open  
pasture just west of Mt. Moses ditto  
Bennetts place, where *Anaphalis* ditto  
*margaritacea* is abundant -  
- *Pogonatum pensylvanicum* (Hedw.) Paris.  
5527 *Juncus macr. s. f. Gray.* ditto  
" Near # 5526 abundant. e ditto  
abundant. (ident. by Dr. T. J. Hermann  
9-8-38)  
5528 *Centaurea maculosa* Lour. On top of e  
3, on highway from Shenandoah Mts.,  
Harrisonburg to Franklin, Va., Rockingham Co.,  
Beside road near West Va. line. Sept. 4, 1938  
several plants: full bloom. H.A. Allard.  
5529 *Amphiastrium montanum*. (Same as Blaize 9-8-38)  
151 same locality with # 5528. e ditto  
very abundant; on dry shale by  
roadside; appears localized at  
high altitudes. *Paronychia fastigiata* (L.) Fern.  
var. *muilla* (Wood) Fernald. - ident. by Dr. T. J. Hermann

Composite in Geo. Wash. Nat. Forest  
- *Hieracium pilosella* L. beyond Harrisonburg, Va.  
5530 On roadside on road to Franklin, West Va. Sept. 4, 1938  
" in woods H.A. Allard  
" by stream before ascending Shenandoah Mts.  
(ident. by S. F. Blaize 9-8-38)

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5531 water plant ditto  
at stream - see # 5530 green. ditto  
" from extensive dense green  
habitats on water soil in mud:  
no flowers.

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5532 *Solidago rugosa* Mill. at Dusie, West Va.  
31. all over the plateau Tucker Co.  
here, the most abundant Sept. 5, 1938  
goldenrod: full bloom. H.A. Allard.  
very showy. They had  
near old pulp factory mine.

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5533 (Aster umbellatus Mill.) e  
" same loc. with # 5532 ditto  
were the plateau. the most abundant  
species. including the thistle.  
*Doublingeria umbellata* (Mill.) Nees

---

5534 Aster. ditto  
" growing on shale with  
# 5533: abundant; full bloom:  
very blue, showy.

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5535 (*Calotropis speciosa*) ditto  
171 Growing near # 5532 e ditto  
abundant: full bloom.  
*Synoema speciosa* (L.) Raf.

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5536 *Cirsium arvense* (L.) Scop. e ditto  
" growing at ruins of  
decimated pulp factory  
at Dusie: a few plants: in full  
bloom. Growing near # 5532.  
var. *muilla* (Wood) Fernald. - ident. 9-8-38 by Dr. T. J. Hermann

Spiraea salicifolia

in low ground  
5537 near Allegheny Front. <sup>near</sup> Tucker Co.  
(2) nearly past flower; H. G. Allard  
very abundant.  
Leonard says S. alba Du Roi

5538 Polytrichum commune Hedw.

(2) Mass  
in low ground and very wet producing a  
very green bog by roadside, water beneath  
ill-smelling. Note long dead portion  
below; this similar to a sphagnum

5539 Solidago puberula Nutt. On top of Shenandoah Mt., Va  
On wood road near West Va line.  
from Lost River to Shenandoah Co.  
Columbia Turnpike. Sept. 5, 1938  
full bloom; abundant. H. G. Allard

5540 Angelica villosa (Balt.) B. S. P. Bull Run Mt., Va  
on roadside in woods  
1 mile north on valley road  
crossing R. R. just south of  
Berkeley Mill. Scattered: in fine mostly  
bl. white

5541 Cuscuta compacta Gross ditto  
Hydrangea arborescens  
in woods beside road near # 5540

5542 Gerardia ternifolia Vahl

(3) on wooded bank near # 5540 ditto  
full bloom; flower purple.  
By roadside here

5543 Moss

(1) in woods on bank north  
of R.R. at Berkeley Mill.  
abundant, mile north.

Near Davis, W. Va  
Sept. 5, 1938.

Leptodeira procumbens <sup>W. H. B.</sup> Bull Run Mt., Va  
in pasture north of old chimney and cellar hole north of R.R. on valley road - near edge of woods.  
H. G. Allard Tianguis Co  
This near the flag stone granaries here.

5541

(2)

5545 Quercus rubra L

(1) Red oak - typical  
Large tree just beyond store # 5544 gear  
on fence row near flag stone granaries  
and negro houses.

5546 Taxodium glabra (Mill.) Br. et Stev.

(3) Tree in edge of woods beyond  
# 5545 just above negro houses.

5547 Carex triptera L

(2) Old field around abandoned cabin  
beyond # 5546 - very abundant this  
year. last year very few; perennial.  
Field yellow

5548 Lechea racemulosa Lam.

(3) in old pasture near quarry  
near old cabin store # 5547 year:  
abundant.

5549 Eragrostis spectabilis (Pursh.) Steud

(2) in old field or pasture near  
# 5547 abundant; showing  
reddish purple.

5550 Heuchera

(2) in some old pasture  
near # 5544.  
Desmodium dilatatum Dark.

*aristida oligantha* Michx. Bull Run Mt., Va  
Sept. 11, 1938  
H.A. Allard  
5551 In old pasture. (with #5544, Faquier Co.  
" 5549, 5550 etc.)  
Large area in dry sterile soil.) e

5552 *Rudbeckia hirta* moniliforme small  
(" In same old field with ditto  
\* 5551 etc; a few still in bloom; mostly pub. was very abundant)  
this field. e

5553 *solidago gaminifolia* var. *mentellii* (Greene)  
var. *mentellii* (Greene) (T. J. Hermann 9-19-38)  
In same old field with (Greene) (T. J. Hermann 9-19-38)  
\* 5551: abundant here, (very brittle) e

5554 *Cyperus strigosus* L.  
red shoot in old pasture near ditto  
\* 5551 (Det. by T. J. Hermann 9-19-38) e

5555 *Panicum philadelphicum* Bernh.  
" In same old field with ditto  
\* 5552 e

5556 *Cyperus strigosus* L.  
In red shoot in same old ditto  
field near # 5555  
(Det. by T. J. Hermann 9-19-38) e

5557 *Cyperus rotundus* Knuth.  
(2) In red shoot in old field ditto  
near # 5554  
(Det. by T. J. Hermann 9-19-38) e

*Fimbristylis antennalis* Bull Run Mt., Va  
In em. spot near (Sept. 11, 1938)  
Faquier Co. H.A. Allard.  
5558 \* 5554, abundant here  
var. *mucronata* (Michx.) Tern.  
(Det. by T. J. Hermann 9-19-38) e

*Heibomia* *Seamodina* *dillenii* Dark. ditto  
5559 Road side in woods just  
north of railroad on steep  
valley road below Beverly Mill.  
full bloom. e

5560 *Echinochloa crus-galli* ditto  
(2) roadside near # 5559; abundant.  
var. *mitis* (Pursh) Peterm. e

5561 *Leersia virginica* (L.) Willd.  
Bank in woods on roadside ditto  
" near # 5559 e

5562 *Panicum polyanthes* Schult.  
(3) On roadside bank near # 5559 ditto e

5563 *Leersia argooides* (L.) Sm.  
" In em. a few red spots by  
roadside a few hundred yards  
north of railroad on valley road. ditto e

5564 *Heibomia* *Seamodina* *dillenii* Dark.  
(3) 1<sup>st</sup> old field where black salal ditto  
tree stood ad old chimney - it  
1/4 mile N. of railroad below Beverly on  
valley road. e

*Spiranthes purpurea* (L.) Lam. Bull Run Mt., Va.  
in old field with <sup>121</sup> Tangier Co. Sept. 11, 1938  
5565 # 5564 around H.A. Allard  
" old house site where black walnut tree stood; much  
Lycium here. ) e

5566 *Quercus falcata* trifolia Michx.  
(21 several trees on valley road just south of Beverley ad near railroad track bed on this dry ridge. ) e

5567 *Actinomeris alternifolia* Sc.  
(21 in damp thicket, very abundant just below Beverley Mill above railroad. ) e

5568 *Vitis vulpina* cordifolia Michx.  
(21 (in some very shallow, broad damp thickets with # 5567 at railroad below Beverley Mill. ) e

5569 *Panicum stipitatum* Nash  
(157 in small just west of Thoroughfare Gap near where # 55 highway turns on dirt detour; ie

5570 *Helianthus annuus* L.  
(11 On filled in land on New Jersey flats below New York; areas. on New Jersey coll. by C.W. Bacon, F.S.D.A. Sept. 1938 (Appears to represent regression to a mild many headed form) ) e

5571 Lichen  
(11 on shale of west slope, at end of road turning off Highway # 11 at Pugh's Run Three Top mountain, Va Magannutlon Range, North of Woodstock, Shenandoah Co., from Pugh's Run Sept. 18, 1938 H.A. Allard. ) e

Lichen  
on shale cliffs  
with # 5571  
5572 (slope very steep) " (near slides) Three Top Mt., Va  
Shenandoah Co.  
North of Woodstock  
ad at end of road at  
Pugh's Run  
Sept. 18, 1938  
H.A. Allard, ) e

5573 Lichen  
same locality with # 5571  
" (on shale cliffs) ditto )

5574 = *C. verticillata* (Hoffm.) Schaeff. (Indefinite in form)  
5574a = same as 5574. )

5574 Cladonia subcariosa f. evoluta (var.)  
" (on shale slope in woods of west slope, cups with squamules inside eth. )

5574b = *C. verticillata* f. evoluta (Th. Fr.) Stev. squamules inside eth.  
5574c = same as 5574. )  
5574c = *C. verticillata* (L.) H. f. aggregata (Sch.) Olis. )

5575 Cladonia - cup formed on shale slope in thin woods near # 5574 ditto  
cups with squamules. )

5576 *Cetraria islandica* L. Ach. ditto  
" (on shale ridge in thin woods west slope - near # 5575 + mosses. )

5577 Moss  
" (on shale on crest of ridge in thin thickets of Red oak, *Solidago* bootii, *Robinia* ditto )

5578 *Quercus rubra* L.  
(18) Leaves deeply lobed ad lobes margin, resembling red oak, but much more pubescent beneath: leaves typically black. On road before we get to farm store we banked up - all from individual tree A. )

*Quercus marilandica* <sup>Three Top Mt., Va.</sup> <sup>Massanutton Range, Va.</sup>  
 velutina Lam. <sup>Shenandoah Co</sup>  
 on shale west slope - <sup>Sept. 18, 1938</sup>  
 on ridge just north of <sup>H.A. Allard</sup>  
 5579 farm house where we <sup>Sept. 18, 1938</sup>  
 parked, in dry sterile shale pasture  
 with ever slope;

5580 *Eragrostis* ditto  
 " roadside near # 5578 ditto  
 (Green homicide)  
*Panicum capillare* L. e

5581 *Polygonum tenue* Michx. ditto  
 " on shale with # 5579; same locality; abundant here e

5582 *Amaranthus gracilis* L. <sup>Shenandoah Co</sup>  
 (3) in dooryard of farm <sup>woodstock, Va</sup>  
 house: fruitate; abundant, <sup>Sept. 18, 1938</sup> H.A. Allard, e

5583 *Kuhnia eupatorioides* L. <sup>On Pughe Run</sup>  
 (4) near bridge on Pughe Run just north of Woodstock, <sup>and just off U.S. highway # 11</sup>  
 just off U.S. highway # 11 <sup>also abundant on Massanutten</sup> <sup># 11, on limestone.</sup>  
 shale of Signal Knob, Three Top <sup>Sept. 18, 1938</sup> H.A. Allard, e

5584 *Hypericum gentianoides* (L.) BSP. <sup>Shenandoah Co</sup>  
 (3) on shale with # 5579 and # 5581 ditto e  
 Sarothra gentianoides (L.) BSP. very abundant in this pasture

5585 *Trichostema dichotomum* L. ditto  
 (6) on same locality together ditto  
 (7) with # 5581; very abundant here e  
 on a dry, sparsely wooded shale slope in pasture.

*Scrophularia macrantha* (L.) Massanutton Range, <sup>BSP</sup> <sup>Three Top Mountain, Va</sup>  
 on shale ridge <sup>Shenandoah Co</sup>  
 5586 just east of Three Top Mt., Shenandoah Co <sup>Sept. 18, 1938</sup>  
 west slope near <sup>H.A. Allard</sup>  
 it, where we parked at end of Pughe Run; abundant; full bloom. e

5587 *Empatorium verticillatum* Reich. ditto  
 (2) lone plant very hairy: is it var. villicum Ternall, e  
 Growing with # 5581: ditto

5588 *Crassula obtusifolia* L. ditto  
 (3) Growing with # 5581; abundant; full bloom. e

5589 *Quercus marilandica* Muench ditto  
 (2) Growing in shale pasture with # 5581 e

5590 *Paronychia fastigata* (Raf.) Tern. ditto  
 " var. minima (Wood) Tern. ditto  
 on shale with # 5586  
 abundant; full bloom; style long

5591 *Aristida dichotoma* Michx. ditto  
 " Growing with # 5585 e ditto

5592 *Houstonia* Nutt. ditto  
 (2) Growing with # 5585; abundant; full bloom; passing Houstonia tenuifolia Nutt. J. e ditto

*Solidago boottii* Hook var. on steep shale Three Top Mountain Range, Three Top Mountain, Va. Sherandoah Co. Sept. 18, 1938.  
5593 with #5586; 31 very abundant here H.A. Allard at top; scarcely any in bloom; very late. On steep shale ridge just east of foot of slope of Three Top Mt.

5594 *Verbascum phlomoides* L. 31 on Pugh's Run just off U.S. highway #11, North of Woodstock, Va. By roadside, a colony in full bloom. Flowers larger, brighter yellow than those of *Verbascum thapsus*. Do not agree well with descriptions of Gray et al., however. My first record for Va.

5595 11 *Chenopodium glaucum* North of Woodstock, Va. in farm yard, album L Great Valley of Va., non Woodstock, e Sherandoah Co. Sept. 18, 1938 growing beside H.A. Allard #5582. Edge chart-edged; culms glaucous.

5596 11 *Parthenocissus quinquefolia* (L.) Willd. Three Top Mt., Va. (Has habit of an eragrostis; very fine stems) Massatinti L. Sherandoah Co. Sept. 22, 1938

5597 (2) *Eragrostis capillaris* (L.) Willd. ridge at foot of Pugh's Run H.A. Allard Bridge N.E. of Woodstock, Va. Just below ridge in back car, in woods at foot of slope. ditto (green panicles; very tenuose) ditto

5598 *Moss* Growing near #5596, in thin woods on shale slope.

5599 *Moss* 11 on rocks near crest of Three Top Mt. mountain above shale ridges, south of where we park. This in rock slide zone in heavy woods in ravine.

5600 Near #5598: woods. ditto

Moss on rocks well up Sherandoah Co. next slope of Three Top Massatinti Range rock boulder slide Sept. 22, 1938 5600 occur (i.e. above shale) H.A. Allard. 11) on rocks in shallow, damp ravine, Three Top Mt., Va.

5601 Liverwort? 11 Growing with #5600 ditto

5602 Moss 11 Growing on rocks in same wooded ravine with #5600 ditto

5603 Liverwort 11 On rocks near #5600 ditto

5604 Moss 11 On rocks near #5600 ditto

5605 Moss 11 On rocks with #5600 ditto

5606 *Solidago bicolor* L. (form) 11 On shale very steep near foot of Three Top Mt., where I fell down slope suffering severe lacerations of left palm (with Dr. T. J. Hermann) abundant, full bloom. A nearly glabrous form.

*Solidago borealis* Pursh. Three Top Mt., Va  
on steep shale at foot Massanutten Range  
of west slope of Three Top Mt., Shenandoah Co  
5607 Va., shale & fell Sept. 22, 1938  
(with Dr. T. J. Hermann H. A. Allard  
(2 abundant here & \* 5606; full bloom  
- *erecta* according to S. T. Blake 9-28-38

5608 *Muhlenbergia sofolifera* (Muhl.) Trin. e  
" in woods at foot of shale slope ditto  
below where I fell e

5609 *Helemium autumnale* L. ditto  
(1) on flood plain of North Fork of  
Shenandoah River near foot of shale  
where I fell, ad just east of farm yard  
where we parked on Pugh's Run Road.  
abundant; full bloom. e

5610 *Eupatorium urticaefolium*  
var. *villosum* Ternal ditto  
" in flood plain with \* 5609: very  
abundant here; full bloom: all with hairy  
stems mostly. High up on rock slides some  
are of typical form, i.e. glabrous or glabrate.  
5611 *Cuscuta* on *Solidago altissima*  
" growing with \* 5609 e ditto  
- *C. gonorhiza* Willd.

5612 *Galium pilosum* Ait  
" on shale (wooded) near e ditto  
top of shale slope where lilacs  
were found, ad shale ledges on top of  
3 mi. N. E. of Woodstock: common  
here.

5613 *Eragratis capillaris* (L.) Nees.  
" on shale at foot of ridge e ditto  
near path leading past farm yard east,  
where we parked.

*Rubus laciniatus* Willd. Three Top Mt., Va  
1/2 ass and hill Range  
with fruit, large, Shenandoah Co  
sweet. Sept. 22, 1938  
5614 on ravine at H. A. Allard  
(1/4 foot of shale slope e  
along road way in pasture east of )  
where we parked. May find acquaintance  
with this blackberry. Rare; scarcely  
more or less evergreen.

5615 *Calamagrostis porteri* Gray  
" in rocky woods near top of  
main ridge above rock slides ditto  
occurs. Not common: having e

5616 *Lespedeza repens* Benth. ditto  
(2) at foot of shale slope near ditto  
\* 5614: abundant prostate, e  
crossing thin sink in pasture here.

5617 *Digitaria filiformis* (L.) Roel ditto  
(3) on shale at foot of slope with ditto  
\* 5616: abundant here. e

5618 *Panicum capillare* L. ditto  
" growing with \* 5617. ditto  
Resembles an *Eragratis* in habit. e  
5618A: *Panicum philadelphicum* Bernh.

5619 Labiateae:  
(2) growing with \* 5614 e ditto  
*Scutellaria ovata nigra* (Wood) Epl.

5620 *Perilla frutescens* (L.) Britton  
" growing near \* 5614: e ditto  
very abundant in damp, thickly wooded  
ravine here.

*Euphorbia*  
on slender at foot of  
slope in thin woods  
5621 near # 5614: (4)  
scattered in grass and low herbage  
here,  
*Poinsettia dentata* (Michx.) Small

5622 *Acalypha virginica* L.  
(21) Growing with # 5621

5623 *Solidago boottii* Hook  
(21) all over steep <sup>farm</sup> slopes  
at foot of Three Top mountain just  
east of farm house where we park,  
3 miles N.E. of Woodstock, Va.

5624 abundant; just in bloom.  
(3) *Artemesia annua* L.  
Growing along both forks of Shenandoah  
on flood plain with # 5609: abundant;  
full bloom here.

5625 *Lepidium sativum*  
(3) In old field on  
highway 55: scattered: full bloom.  
= *L. sativum* D. Don.

5626 *Helianthus angustifolius* L.  
(6) full bloom)  
My first record for Va.  
Done by roadside

5627 *Vitis bicolor* L. C. Smith  
(3) on rock slide  
near top of Three Top, Va  
west slope, abundant, full bloom, pleasant.  
H.A. Allard.

Three Top Mountain, Va  
Massachusetts Range,  
Shenandoah Co.  
Sept. 22, 1938

H.A. Allard,

Sept. 22, 1938

H.A. Allard

*Bidens aristosa*,  
anise domino-like flowered  
By roadside on Triassic. Sept. 25, 1938  
5628 very showy: passing  
(5, H.A. Allard  
var. *fritcheyi* Fernow, ) e

5629 *Pilea pumila* (L.) G. Gray. ditto  
(3, in woods back of  
John Gaskins home, N.E. of Rock Knob.  
Heavy woods on west slope.  
abundant: full bloom etc.) e

5630 *Elephantopus carolinianus* Willd. ditto  
(#1 in moist woods with # 5629  
(5) Full bloom: abundant here.) e

5631 *Galinsoga parviflora*  
ciliata (Raf.) Blake ditto  
(5) var.  
in old field near barn of  
John Gaskins: abundant: full bloom.) e

5632 *Argyndia polygonoides* Raf. ditto  
111 Growing with # 5629 in  
open in woods: abundant,  
passing.) e

5633 *Muhlenbergia subulifera* (Muhl.) Griseb. ditto  
(3, in woods near # 5630, ) e

5634 *Lepidium stipitaceum* Popov. ditto  
(3, in old field on east slope and  
in valley east of Gaskins ridge  
extreme easternmost of Gaskins' Ridge.  
very abundant.) e

*Lespedeza striata* (Thunb.) H. & A. Bull Run Mt., Va  
in valley between  
Gackins ridge and  
eastermost ridge.  
" directly east of Gackins: in waste ground,  
abundant covering ground.

5636 *Solidago altissima* L. ditto  
" in old field near # 5635.  
abundant: full bloom.  
6 ft tall or more.

5637 *Leersia oryzoides* (L.) Desv. ditto  
" and brook in valley beyond  
(east) of Gackins place, lie between  
his ridge and the high eastermost ridge.  
abundant here: a tangle of decumbent  
stems.

5638 *Carpinus caroliniana* var. ditto  
" in swampy woods between  
Gackins' ridge and eastermost ridge -  
directly east from his home 6 miles S. of Alpine.

5639 *Heibouria diffinis* Dark ditto  
" Desmodium  
in same swamp with # 5638 ditto

5640 *Muhlenbergia diffinis* (L.) A. Nels. ditto  
" in old field near beyond and east  
of # 5638, near giant white oak tree  
where we ate lunch. Dense stands  
here. (= *M. schreberi* var. *halistrix* (Scribn.) S. Wats.)

5641 *Eupatorium coccineum* L. ditto  
" in low ground meadow in  
valley just south of # 5638 in edge  
of woods. Abundant: fl. rich red, &  
very showy.

*Dryopteris dipteronia* Bull Run Mt., Va  
Tangier Co  
in swamp just beyond # 5638  
" snake here # 5641 green (H. & A. Allard)  
" - *D. goldiana* (Hook.) Gray

5643 *Agrostis perennans* (Wall.) T. Hornsby ditto  
" in woods near sandstone  
bed just bordering small  
ridge # 5641 green: scattered,

5644 *Quercus coccinea* M. Benth. ditto  
" in small woods near  
# 5642, in small isolated  
grove in pasture here.  
Oaks shedding now.

5645 *Quercus prinus* L. ditto  
" Growing beside # 5644.  
Most abundant oak in area.  
Leaves shedding now.

5646 *Pinus pungens* T. & G. Three Top Mt., Va  
" at top of ridge. Massanutten Range,  
Shenandoah Co, Va.  
Limestone shale ridges. Sept 22, 1938  
Large tree. (H. & A. Allard)  
(This out of date under my mistake)

5647 *Caster cordifolius* L. ditto  
" on damp bank along North Fork  
of Shenandoah N. of Lee in part at  
end of Pugle Run road. Abundant; full  
bloom: (large blue) Henlocks abundant here.  
(Near red summer cabbages)

5648 *Agrostis* ditto  
" Growing on west slope near  
# 5647. in old wash road.  
*Agrostis perennans* (Wall.) Tuck.

*Cladonia* branched \*  
+ moss  
On soil on rocks  
5649 near top, west slope. Oct. 2, 1938  
H.A. Allard.

5650 *Solidago boottii* Hook  
(9) on steep shale <sup>bed & fell</sup> <sup>16 shed</sup> ditto  
at foot of Pugus Run road <sup>5.5% slope</sup> ditto  
off U.S. 211. abundant on  
barren shale bed. passing Roger  
Crusher N.E. of Woodstock. Oct. 6, 1938

5651 *Vitis cordifolia* Michx.  
(5) on shale by roadside near  
where we parked car. 3 miles  
N.E. of Woodstock. fruit black, ditto  
shining, very acid at

5652 *Solidago bicolor* L  
(3) on shale (steepest part) with  
\* 5650; abundant: rays cream  
full bloom.

5653 *Liatris scariosa* Willd  
(2) on shale near edge of wood ditto  
at flatter portion above steeped  
slopes, above wood begin: full bloom:  
not abundant.

5654 *Celastria scandens* L  
(4) On top of rocky ridge <sup>3 miles</sup> N.E. of Woodstock. abundant: ditto  
full fruit; leaves yellowing, falling. e

5655 *Solidago caesia* L  
(5) Growing with \* 5654 ditto  
full bloom, very beautiful, fresh:  
one of our latest golden rods;  
abundant

*Quercus coccinea* Wang  
Growing on west slope, 3 miles <sup>Three top of Mt. Va</sup>  
Massanutten Range, <sup>Massanutten</sup>  
Shenandoah Co <sup>Shenandoah Co</sup>  
Oct. 2, 1938 <sup>N.E. of Woodstock, abundant</sup>  
H.A. Allard. <sup>Oct. 2, 1938</sup>

5656 157

5657 *Solidago bicolor* L  
Road side, Hafencell Co <sup>Bull Run Mt. Va</sup>  
just west of Antioch, Va. <sup>Prince William Co.</sup>  
full bloom; abundant. <sup>Oct. 5, 1938.</sup>  
H.A. Allard. e

5658 *Panicum philadelphicum* Bernh.  
In old <sup>cut</sup> <sup>cornfield</sup> Fangman Co.  
just north of Mrs. Cox's house,  
west slope, north of Hafencell Co.  
early mature.

5659 *Aristida oligantha* Michx.  
(1) Roadside below High Point (rest) ditto  
on west slope: abundant,  
(mitchich east) e

5660 *Panicum gattingeri* Nash  
In cornfield with \* 5658 ditto  
abundant last year; <sup>Fangman Co.</sup> <sup>more</sup> this  
year in same field.  
mature: flowers falling.

5661 *Achypha gracilis* L  
virginica  
Growing in old farmfield (of 1937) ditto  
near stream & road just below (rest)  
of white birches: very abundant,  
seeds black, smooth.

5662 *Panicum philadelphicum* Bernh.  
(2) Growing beside \* 5661, ditto  
here abundant in this old Fangman Co.  
cornfield. e

*aster puniceus* L

rays bright blue

5663 By roadside at stream

and bridge over Little Forks.

131 below where car was parked.

very abundant, showy

(Leaves toothed) bracts loose



5664 *Solidago altissima*

mgaa Hill

" near Harris place east

in valley by old cherry tree.

abundant; full bloom

Prince William Co

5665 *Prenanthes serpentinica* Persb

along wood road just

121 north of Hopewell (Co.)

interior valley road to Mrs. Ashby's

full bloom; common.

Prince William Co

5666 *Solidago graminifolia*

var. *mitallii* var. *mitallii* Greene

121 in old field near Alexis house

west of Ashby's place, north of Hopewell (Co.)

where in belles lived.

abundant; full bloom.

Prince William Co

5667 *Eupatorium hyssopifolium* L

" in some field with # 5666

abundant here; full bloom.

Rare elsewhere in Bull Run, Prince William Co

5668 *Panicum clandestinum* L

" near # 5667 - south of Alexis

house (colored) in old field.

Prince William Co

5669 *Digitaria* ~~filiformis~~ *filiformis* (L.) Kuntze

31 in old field just west of

Alexis cabin near

Chestnut Tree Spring.

abundant.

Bull Run M. T. Va

Fauquier Co.

North of Hopewell (Co.) Va

Oct. 5, 1938

H.G. Allard.

*Aristida dichotoma* Michx. Bull Run M. T. Va  
Prince William Co.

in old dry field near

5670 *Alexis cabin* - ie

121 with # 5669.

very abundant in

thin soil; very purple

cast.

5671 *Panicum agrestoides* Spreng.

" abundant - nearly past

in moist spot just south of

Alexis cabin - near # 5670

5672 *Eragrostis pectinacea* (Michx.) Nees

" in old field near

\* 5670; abundant;

very showy purple.

5673 *Prenanthes trifolia*

" roadside west west of ~~serpentinica~~ Persb.

west of Antioch 4 miles on Hopewell (Co.)

road; full bloom.

5674 *Bidens vulgata* Greene

" on soil by roadside

beside # 5673.

abundant.

5675 *Linen*

" in old field near

\* 5670.

abundant; past flower.

*Castanotolinum virginianum* (L.) Reichenb.

5676 *Panicum*

" roadside opposite

*Castellaria*

= *P. dichotomiflorum* Michx.

Bull Run M. T. Va

Fauquier Co.

Hopewell (Co.)

Oct. 9, 1938

H.G. Allard.

*Panicum capillare* L. Bull Run Mt., Va  
In open near f. angustifolia  
Castille's quarry at H.A. Allard  
5677 Hooperell Gaf (purple panicles)  
" ditto

5678 *Eupatorium aromaticum* L. ditto  
" Edge of woods at upper edge of high  
brook edge field near small oak  
smith of Hooperell Gaf.  
a colony here: full bloom.

5679 *Eupatorium rotundifolium* L. ditto  
(2) Woods of red slate below  
High Point. Full bloom.

5680 *Eragrostis capillaris* (L.) Nees. ditto  
(3) Open ground near Castille's  
quarry (flagstone) - ie with # 5677.  
abundant: purple panicles.

5681 *Erechtites hieracifolia* (L.) Raf. ditto  
" abundant near above quarry  
- ie near # 5677: full bloom,  
ad mixed with silvery hoptree also.  
very common.

5682 *Aster patens* Ait. ditto  
" Woods below High Point - ditto  
near # 5679.  
Abundant: full bloom: beautiful  
blue flowers on all ridges.

5683 *Gentiana villosa* L. ditto  
(2) Woods below High Point  
near # 5679.  
full bloom; corolla greenish.

*Aster modiculus* L. Bull Run Mt., Va  
rays blue.  
In thickets of old Smith of Hooperell Gaf  
5684 Field below Oct. 9, 1938  
(2) High Point; abundant. H.A. Allard.  
" ditto

*Physalis ixocarpa* Brot. ditto  
5685 In same waste field with  
(2) \* 5684; abundant; fruit  
agreeable in flavor  
Ident by C. V. Morton

5686 *Aster paniculatus* L. ditto  
(3) Roadsides near Castille's  
abundant; full bloom; rays  
blue.

5687 *Muhlenbergia schreberi* Gmel. ditto  
(2) In dry cane (open)  
See *Lechria angustifolia* Smith  
grass - ie near old Black Walnut  
tree just west of Hooperell - Broad Run  
Station - very abundant.

5688 *Pinus nigra* forma *globosa* Ait. ditto  
" In old field south of Hooperell Gaf.  
See photos. I have named this  
forma *globosa*. A very beautiful  
evergreen, rounded tree.

5689 *Aster puniceus* L. ditto  
" Open low ground near # 5688  
very abundant: full bloom.

5690 *Aster lateriflorus* (L.) Britton. ditto  
(3) In old field just south of  
Hooperell Gaf near old Riley Cabin.  
Rays reddish purple; abundant.

*Empateris aromaticum* L. Bull Run Mtn., Va  
Tangier Co  
Edge of woods Oct. 9, 1938  
at upper limit H.G. Allard  
**5691** of High broomedge, south of Hopewell Cray.  
 (3) near small Oak field  
a large colony here: full bloom. )

**5692** *Solidago nemorosa* Muhl. )  
 " In woods near # 5691 ditto  
full bloom. )

**5693** *Lespedeza virginica* (L.) Benth. )  
 " In high broomedge field ditto  
beyond Riley cabin (1937)  
abundant in bare stands of  
*A. scapularis* here. )

**5694** *Lespedeza procumbens* (L.) Benth. )  
 " Growing in same broomedge ditto  
field with # 5693.  
Scattered here: less abundant  
than # 5693 as grass is taller. )

**5695** *Panicum gattingeri* Nash. )  
 " In high broomedge ditto  
field near # 5693, where  
thin stand of *Andropogon scapularis*. )

**5696** *Andropogon scapularis* Michx. )  
 (3) In old field near where ditto  
Riley's lived 1937. (beyond Costello's.) )

**5697** *Aster pilosus* var. *denotatus* Blake )  
 (2) In Costello's old field planted ditto  
to ? 1936 - where some croaker is  
Full bloom: very abundant. )

*Aster paniculatus* Lam. Bull Run Mt. Va  
 — In Costello's old field Fauquier Co  
 near # 5697; abundant. Oct. 9, 1938

**5698** full bloom. Smith of Hagerstown  
 (1) H. Allard

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**5699** *Aster lateriflorus* (L.) Britton

(2) In old field near Rileys ditto  
 (1937) : abundant here  
 full bloom : rays reddish purple. )

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**5700** *Aster paniculatus* Lam

(3) By roadside between ditto  
 Costello's & Owner's properties (e)  
 rays bluish : full bloom

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**5701** *Aster pilosus* var. *demotus* Blaas ditto

(1) Growing near # 5699. e  
 very abundant.

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**5702** *Aster paniculatus* Lam. ditto

" By roadside near # 5700 e

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**5703** *Digitaria inchaerifum* (Schreb.) Muhl.  
 (1) In roadway descending ditto  
 past Costello's flagstone quarry.  
 Spikelets very little pubescent. )

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**5704** *Vitis cordifolia* Michx.

(2) On cliff of High Point: ditto  
 abundant: full bloom  
 fruit black without bloom, very acid.  
 some leaves.

\* 5706 #5707 collected Oct. 11, 1938

*Vitis aestivalis* Michx. Bull Run Mt., Va  
woods below High Point, south of Haferville Gap.  
5705 near Haferville D. 11.9. Allard  
" fruit black with bloom, agreeable.

5706 *Solidago bicolor* L. with deep yellow rays. This plant (A) appeared in a progeny from a normal cream-rayed plant found on Big Cobbler Mt., Fauquier Co., Va. 1937. Sowed in flat outside 11-15-37. To soil house 12-15-37 by 1-12-38. To hort. of testo 5-4-38. Collected 5-25-38. Pollen 9-22-38. at 28 in. tall. <sup>12-15-37 by 1-12-38 to hort. of testo 5-4-38</sup>

5707 *Solidago bicolor* L. with typical cream-yellow rays. Sister plant in same progeny with 5706, and growing in field just transplanted May 25, 1938. Pollen 9-22-38. This plant from Big Cobbler is designated as A. L.

5708 *Solidago bicolor* with yellow rays, appearing in a progeny of a normal cream-rayed plant of *S. bicolor* (designated as B) found on Big Cobbler fall of 1937. Sowed in flat, wild frame 11-15-37. To soil house 12-15-37 by 1-12-38. To hort. of testo 5-4-38. When together 2 in. across. This was 14 hours day. Pollen 8-29-38. at 23 2/3 in. Both parents A & B found on Big Cobbler.

5709 *Solidago bicolor* except rays color a cream-rayed plant of *S. bicolor* H. A. L. appearing in a progeny from a plant (B) found on Big Cobbler 1937. Sowed as for #5708. This plant (#5709) a sister plant to #5708. This a contrast to #5708. Pollen 9-22-38 at 28 in. collected Oct. 13, 1938 by H. A. Allard

5710 *Solidago bicolor* L. rays white. Big Cobbler Mt., Va. Fauquier Co., Va. on crest of mt. along path, and along wood road west of Marshall, Va. Oct. 10, 1938

5711 *Solidago bicolor* L. a form (rays yellow) Abundant with #5710 on top of road ditto some wood road on west slope, often intermingled closely. It is difficult to distinguish from true bicolor. H. A. Allard.

5712 " on outcropping granite ledges of west slope. H. A. Allard

5713 *Solidago squarrosa* Michx. ditto a on top along wood road. Occasional; full bloom. Not found below top in heavy woods.

5714 *Eupatorium maculatum* L. " on wooded slope west of wood and on top; abundant; full bloom.

5715 *Cloupeanthemum leucanthemoides* var. *leucanthemoides* F. Jam. in Castellis field near Haferville Gap. H. A. Allard

5716 *Cladonia* (red heads) on soil on Castellis quarry ridge in chestnut oak woods - some *Princ. praeceps*; abundant. = *C. cristatella* f. *vesicula* Tuck.

5717 *Cladonia mitrula* f. *imbricatula* (Nyl.) Spreng. (cream-colored heads) ditto on soil with #5716

5718 *Cladonia* sp. on soil with #5716 (sterile, not determinable) ditto

Big Cobbler Mt., Va  
Fauquier Co.  
west of Marshall.  
Oct. 16, 1938.  
H. A. Allard

= *Cladonia strepsilis* (Gub.) Vain. Bull Run Mtn., VA  
 fine foliaceous type as in *C. apodota* (L.) Vain. <sup>probably, but sterile</sup> Tranquilline Co.,  
 but finer, abundant. <sup>as Smith of Hagerell Gap</sup>

**5719** On soil on Castellis quarry, Dec. 11, 1938  
 abundant on bare banks ridge. H. G. Allard

" in thin chestnut oak woods  
*Cladonia ciliata* (Pers.) Flotke. with some fine, dry, browned soil  
 " <sup>much naked sandy soil</sup> years ago.

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**5720** *Cladonia* ditto  
 " same loc. with #5719

= *C. cristatella* f. *Beauvoisii* (Del.) Vain,  
 & f. *vestita* Tuck.

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**5721** *Cladonia* ditto  
 " same loc. with #5719

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**5722** *Cladonia* ditto  
 " in same loc. with #5719

= *C. klemota* (Flotke) Schaeff.

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**5723** *Lichens* ditto  
 " on cliffs of Castellis quarry ridge; ditto  
 on rock surfaces; fine black dots  
 " " " abundant.

---

**5724** *Lichens* = *umbilicaria caroliniana* Tuck. ditto  
 " black spots ~~as~~ above on <sup>caroliniana</sup> Tuck.  
*umbilicaria fuscata*; same type spot as 5723: on same cliffs

" 5725C: *Polytrichum juniperinum* Willd.

---

**5725** *Cladonia cristatella* f. *vestita* Tuck. ditto  
 " red apothecia with very  
 squamulose stipes.

" Grown with #5719 on soil

" 5725 in moss <sup>of</sup> *Polytrichum*  
 " 5725b: *C. klemota* (Flotke) Schaeff. probably.

Lichen: on rocks - a prominent species in circular areas; color dark olive green; easily detached; thin soil beneath.  
 5726 = *Amathychia aquila* (Ach.) Mass.

Bull Run Mt. Va  
 Fangmier Cr  
 south of Hogenell Gap  
 on side of Castellis Mountain ridge. 12-11-38  
 H.A. Allard.

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5727 *Cladonia* *glaucum* (L.) Schrad. ssp. *glaucum* ditto  
 5727B = *Leucobryum glaucum* (L.) Schrad. ditto  
 (1) On soil of Castellis gnarly ridge; abundant in chestnut oak woods. = *C. macilenta* f. *Styraecella* (Ach.) Zin.

5727a = *C. chlorophlaea* (Tilzer) Spreng. ditto  
 5727c = *C. plerota* (Tilzer) Scher. ditto

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5728 Lichen  
 (1) *Cladonia cristatella* f. *Beansoiana* ditto  
 On soil with #5727 and *C. vestita* (Del.) Train. Trich.

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5729 *Cladonia caespiticia* (Pers.) Tilzer ditto  
 (1) On soil with #5727.

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5730 *Cladonia plerota* (Tilzer) Scher. ditto  
 (1) On soil with #5727 but not very distinctive.  
 What is the moss with it?  
 5730a = *C. cristatella* Tilzer.

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5731 *Cladonia*  
 (1) On soil with #5727 among moss. *Polytrichum* = ditto

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5732 *Cladonia strepsilis* (Ach.) Train. ditto  
 (1) On soil near #5727 ditto  
 like *Trichia squamulosa* with peripheral brown apothecia

\* *Cladonia*  
On soil on Castille's quarry  
at top of old field above ridge  
5733 rock crumb stood -  
+ stone spring is.  
" in dry chestnut oak woods  
- *C. macilenta* f. *striatella* (Ach.) Main.  
5733a = *C. pleurota* (Flotterke) Schaeer.

5734 *Cladonia*  
heads light cream  ditto  
" on soil with #5733  ditto  
- *C. mitrula* f. *imbricatula* (Nyl.) Main.

5735 *Cladonia strepsilis* (Ach.) Main.  
" on soil with #5733 ditto  
(Similar to *C. afrocarpa*; finer  
abundant tree.)

5736 *Cladonia macilenta* f. *styracella* (Ach.) Main.  
" on soil with #5733 ditto  
5736a = *C. pleurota* (Flotterke) Schaeer.

5737 *Cladonia caespiticia* (Pers.) Flotterke  
" on soil with #5733 ditto

5738 *Cladonia strepsilis* (Ach.) Main.  
" on soil with 5733 ditto  
Dense, finer than *C. afrocarpa*;  
blue green.  
covers considerable areas of bare soil.

5739 Lichen  
" on rock surfaces as small  
black cups  abundant on Castille's quarry cliffs  
near #5733

Bull Run Mt., Va  
Fauquier Co.  
Dec. 11, 1938  
H.A. Allard  
On Castille's quarry ridge  
just S. of Hufnall Gap.  
5733B = *Dicranum scoparium* (L.) Hedw.

Lichen  
Near foot of cliff road  
slope: color fresh lead gray  
with brownish cast  
around edge: close  
circles on rocks.  
abundant,

Bull Run Mt., Va  
Fauquier Co.  
High Point cliff  
Dec. 11, 1938.  
H.A. Allard.

5740 " Lichen  
small black dots on rocks) ditto  
" (On cliff at end of High Point)  
abundant.

5741 Lichen  
" ditto

5742 = *Cladonia caespiticia* (Pers.) Flotterke ditto  
" On brick my bark on tree  
on Castille's quarry ridge

5742A = *Physcia leana* Tuck.  
5742B = " *adscripta* (Flotterke) Tuck.  
5743 Lichen = *Parmelia rudeata* Ach. ditto  
" On same tree with #5742 ditto  
5742C = *Caloplaca microphyllina* (Tuck.) Hassae  
5742D = *Physcia astrioides* (Clem.) Nyl.  
5742E = " *endocarpaea* (Hauspe.) Nyl.  
5742F = " *Stellaria* (L.) Nyl.

5744 Lichen  
" On same tree with #5742 ditto  
= *Caloplaca microphyllina* (Tuck.) Hassae

5745 Tiny green mass  
" in small crevices on cliff  
of Castille's quarry ridge.  
Very dry green in soil  
= *Gymnostomum rupestre* Schleich. ditto

5746 Lichen  
" On same tree with 5742 ditto  
= *Cladonia caespiticia* (Pers.) Flotterke

Lichen  
On bark of hickory tree  
on *Castilleja* grassy cliff  
5747 just S. of Hafersell Gaf  
" " stone, spring is  
" " = *Physcia setosa* (Ach.) Nyl.  
5747A = } Both same as above.  
5747B = }

5748 Lichen  
= *Cladonia caespiticia* (Pers.) T. Moore  
" " On same tree - all well above " mostly *Thamnophyllum*  
ground  
fine green, close growth; abundant.

5749 Lichen = *Physcia lithotodes* Nyl.  
" " On same tree with # 5748.  
dark olive grayish green

5750 Moss  
" " On same tree with # 5748  
= *Platygyrium repens* (Brid.) B. & S.

5751 Lichen  
" " On same tree with # 5748

5752 *Cladonia caespiticia* (Pers.) T. Moore  
" " On bark of same tree mostly thallus. ditto  
with # 5748; fine, dense, green  
growth.

5753 Lichen = *Parmelia radula* Ach.  
" " On hickory bark on same tree  
with # 5748; also on rocks, cliffs  
etc.

Bull Run Mt. Va  
Fauquier Co  
Dec. 11, 1938  
H.A. Allard

Lichen  
small, greenish  
5754 On hickory tree bark  
just S. of Hafersell Gaf  
" " on *Castilleja* grassy ridge,  
stone fire, high spring is, and  
several stone crater was.  
= *Caloplaca microphyllina* (Tuck.) Hasse.

5755 Lichens (several)  
ditto  
" " On some tree with # 5754  
5755B = *Physcia stellaris* (L.) Nyl.  
= *Caloplaca microphyllina* (Tuck.) Hasse.  
5755A = *Parmelia aurulenta* Tuck.

5756 Lichens  
" " On bark of same tree  
with # 5754  
> *Cladonia caespiticia* (Pers.) T. Moore,  
(no *prodetia*)

5757 *Cladonia* + moss  
" " On soil in dry chestnut oak  
5757a Woods on *Castilleja* grassy ridge  
South of Hafersell Gaf.  
" " *C. cristatella* Red heads - }  
" " *C. cristatella* f. *Beauroisii* (Del.) Tuck. }  
" " *C. cristatella* f. *Beauroisii* (Del.) Tuck. }  
5758 *Cladonia* Tuck. }  
" " on Moss }  
" " same loc. with # 5757 }  
" " *C. cristatella* f. *Beauroisii* (Del.) Tuck. & *C. vestita* Tuck. }

5759 Lichen  
Lead gray  
" " on same tree with # 5754  
two species; one smaller,  
finer.

5760 Lichen-like lichen  
" " on cliffs near spring S. of  
Hafersell Gaf, most exposure  
on *Castilleja* grassy ridge: not  
common.

*Umbilicaria postulata* Bull Run Mt., Va  
On *Castilleja* grassy cliff. Tangier Co  
abundant throughout Smith of Hopewell Gaf.  
5761 in all cliffs. ~~On rocks~~ <sup>On rocks</sup> Dec. 11, 1938  
" of Bull Run. On *Castilleja* H.A. Allard

5762 Moss Light yellowish green  
" On soil on *Castilleja* grassy  
ridge in chestnut oak woods  
abundant here etc

5763 Liverwort  
" On sloping rock surface  
with thin soil, forming extensive  
mats on rock with lichens etc  
Has extended these; washed off  
portions of mat on ground also.

5764 Moss  
" *Hypnum* - fern like: yellowish green.  
On flat rocks on thin black soil layer  
at High Point: full of lichens  
making mats on rocks.

5765 *Parola*  
" Liverwort  
Dark reddish brown mats easily  
lifting. slight soil beneath - on flat rocks  
at foot High Point cliff; abundant.  
full of lichen <sup>succession</sup> etc.

5766 Moss  
" (light yellowish green)  
On soil with # 5762  
abundant on banks, on stone soil  
accumulated on rocks etc.

5767 Moss  
" *Polytrichum* (dark green)  
On soil in chestnut oak  
woods near # 5762:  
abundant.

ditto

ditto

ditto

ditto

ditto

5768 Moss  
" On flat rocks forming  
dense mats of pure  
growth; slight soil  
beneath. On rocks  
of *Castilleja* Quarry Ridge.  
abundant) (full of lichens)  
color rather yellowish green.)

5769 *Cladonia*  
" *Perideer*, + moss  
*Polytrichum*  
coming in chestnut oak woods  
on *Castilleja* Quarry ridge  
on soil; abundant.

5770 Moss  
" Completely encircling base of a  
small tree with its small and  
just above the dense *Cladonia* layer  
which it cannot grow in. On *Castilleja* Ridge  
where it joins slope of High Point ridge south.

5771 Liverwort  
" On rock surface (flat) near  
# 5770 on some ridge near  
High Point ridge.

5772 C = *cladonia reticulata* (Hoffm.) Scher (young plants)

5772 b = C. *chlorophaca* (Flotke) Spring, but *modesta*

5772 cladonia (red apothecia more slender than usual)

5772 d = *C. cristatella* Trimb. The sterile ditto

5772 e = *Polytrichum juniperinum* Willd. something else: doubtful

C. *albicans* and here

*C. cristatella* f. *scyphonifera* Sandst. P. J. Beaman

5773 Lichen on sandstone Bull Run Mt., Va

" on High Point ridge outcrop.

*Cladonia caespiticia* (Pers.) Thiers.

abundant here probably.

5774 Lichens several species

" On sandstone rocks

on High Point ridge

with # 5773

ditto

ditto

ditto

ditto

ditto

ditto

Bull Run Mt., Va  
Dec. 11, 1938  
H.A. Allard  
Tangier Co

Lichens  
 small & <sup>large</sup> ~~large~~ of chrysophytes  
 5775 on ~~sandstone~~ <sup>soil</sup> ~~valley~~ <sup>valley</sup>  
 rocks intermingling  
 in *Castilleja* grassy  
 ridge.

Bull Run Mt, Va  
 Fauquier Co  
 Dec. 18, 1938  
 H. G. Allard  
 Smith of Hopewell Gap.

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Lichens  
 5776 On rocks (sandstone), ditto  
 " on outcrops on *Castilleja* grassy  
 ridge

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5777 *Cladonia furcata* f. *gigantea* Evans  
 On vertical rock faces (sandstone), ditto  
 " in heavy oak-chestnut wood, far  
 along on High Point ridge outcrops.  
 Grows in pure colonies and so closely  
 attached to rocks is very difficult to remove.  
 (Recently found) my first record here.

---

5778 *Cladonia neomixta* (Ach.) Mgl., <sup>perhaps</sup> ditto  
 " on sandstone rock faces on <sup>but</sup> <sup>but</sup> <sup>doubtful.</sup>  
*Castilleja* grassy ridge.

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5779 Mass = *Dicranum flavum* Hook  
 growing in rock crevices on ditto  
 sandstone outcrops on *Castilleja* grassy ridge

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5780 *Cladonia cristatella* f. <sup>and</sup> *leucosticta* Del. <sup>rain</sup>  
 " in old brownedge field ditto  
 N. of old mansion at foot of  
 High Point Ridge, west slope.  
 between the clumps.  
 (apothecia red)

---

5781 *Cladonia pycnantha* Merr., <sup>but</sup> <sup>scanty and doubtful</sup> ditto  
 " Growing with 5778  
 between clumps.  
 5781a = *C. subcariosa* Mgl.

Cladonia subcariosa f. erolata, Bull Run Mt., Va  
 in old broomedge field Fauquier Co  
 N. of old mansion  
 5789 in woods, near slope Dec. 18, 1938  
 below High Point. H.A. Allard  
 " Growing in interspaces south of Hafnerell Gaf.  
 between clumps (apothecia dark brown or black)

5790 Cladonia cristatella f. lemniscata (Del.)  
 " apothecia red, and f. vestita (L.) ditto  
 with # 5789 between clumps

5791 Cladonia cristatella f. lemniscata (Del.)  
 " with # 5789 between f. vestita (L.) ditto  
 clumps in soil and on dead  
 basal stems and leafage of clumps  
 that have died from overrunning etc.  
 5791a - C. cristatella f. vestita (L.)  
 (apothecia red) and f. lemniscata (Del.) ditto  
 on basal stems etc. go for  
 # 5789 and near it  
 - siphonifera

5792 Cladonia cristatella f. siphonifera (Del.)  
 " (apothecia red) and f. lemniscata (Del.) ditto  
 on basal stems etc. go for  
 # 5789 and near it  
 - siphonifera

5793 Cladonia reticulata f. erolata (Th. Fr.)  
 " with # 5789 between ditto  
 clumps in soil  
 5793a - C. cristatella f. vestita (L.)  
 (apothecia red)

5794 Mass  
 " on sandstone rocks ditto  
 in Costello's quarry ridge

5795 Mass - Dicranum fuscescens Hook.  
 " in crevices of cliffs of  
 sandstone in heavy oak-chestnut  
 woods in Costello's quarry cliff  
 near # 5794

Cladonia ?  
 (dark olive green)  
 on chestnut oak  
 5796 tree bark (living)  
 " on Castello's quarry ridge.  
 5796a = C. coespiticia (Pers.) Flotz., probably but ~~but~~ <sup>but</sup> distinctive.  
 5796 = Physcia setosa (Ach.) Nyl.

5797 Cladonia reticulata f. erolata (Th. Fr.) ditto  
 " dry interspaces in same  
 broomedge field with # 5789  
 on soil

5797a = C. subcariosa f. erolata (Th. Fr.) Stein and  
 f. squamulosa Robbins.

5798 Lichen = Physcia setosa (Ach.) Nyl. ditto  
 " dark gray  
 " on living chestnut oak tree bark  
 on High Point ridge in heavy  
 oak-chestnut woods.

5799 Lichen = Physcia setosa (Ach.) Nyl. ditto  
 " on bark of chestnut oak  
 tree living near # 5798

5799a = Physcia stellaris (L.) Nyl.

5800 Cladonia coespiticia (Pers.) Flotz., ditto  
 " on rocks (sandstone)  
 on Castello's quarry ridge in  
 heavy oak-chestnut woods.

5801 Lichen (gray)  
 5801a " on bark of chestnut oak tree ditto  
 living near # 5798  
 = Pertusaria multipunctata (Turn.) Nyl.

5802 Mass  
 " on sandstone cliff near  
 Lichen (black)  
 on sandstone cliff near  
 # 5800.

Lichen  
 On bark of living  
 chestnut oak tree  
 5803 on High Point Ridge  
 " crest.  
*Pertusaria pertusa* (L.) Tuck.

Bull Run Mt., Va  
 Fangmier Cr  
 Dec. 18, 1938  
 H.A. Allard  
 South of Hafersell Gap

Bull Run Mt., Va  
 Fangmier Cr  
 Dec. 18, 1938  
 H.A. Allard  
 South of Hafersell Gap

5804 *Cladonia sorbonica* f. *cylindrica* Hoffm.  
 " on overhanging sandstone cliff  
 cliffs on Castello's quarry ridge

5805 Moss  
 " on sandstone cliff  
 interfing with # 5804

5806 " ass = *Dicranum flavum* Noack  
 " in crevice in limestone cliff  
 (sandstone) outcrops on  
 Castello's quarry ridge

5807 Lichen *Pertusaria multipunctata* (L.) Wm. Nyb.  
 " (gray areas)  
 On bark of chestnut oak tree  
 on High Point Ridge; one of most  
 abundant lichens here.

5808 Lichen  
 " on sandstone cliffs  
 on Castello's quarry ridge.  
 Black and very worn or as  
 circular areas like  
 a soot or smudge.

5809 Moss  
 On sandstone rocks on  
 Castello's quarry ridge near  
 # 5808.

Bull Run Mt., Va  
 Fangmier Cr  
 Dec. 18, 1938  
 H.A. Allard  
 South of Hafersell Gap

5810 *Cladonia*  
 in old brownedge field  
 with # 5809 on soil  
 and on dead basal  
 " stems of dead  
 clumps  
 " *C. midmontensis* f. *lepidifera* (Wain.) Robbins.

5811 Lichen  
 On sandstone rocks  
 on High Point ridge.  
 (Light green; *Parmelia* ?)

5812 Lichen = *Dermatocarpon*  
 (gray) *miniatum* var *complicatum* (L.)  
 on flat rocks near  
 High Point cliffs in  
 heavy oak-chestnut woods.

5813 *Cladonia* *mairenta* Hoffm.  
 several 5813a = *C. cristatella* f. *scyphulifera*  
 one red apothecia but not distinctive.  
 one - slender, pointed "  
 on soil on Castello's quarry ridge  
 in heavy oak-chestnut woods.

5814 *Cladonia strepsilis* (Ach.) Wain  
 " very abundant covering large areas  
 On soil in " " open oak woods  
 on road near Antioch, Va., on  
 Triassic area

5815 Lichen = *Physcia selosa* (Ach.) Nyb.  
 " (gray)  
 on bark of dead tree  
 on Castello's quarry ridge  
 in heavy oak-chestnut woods.

5816 *Cladonia cristatella* f. *vestita* Tuck., ditto  
 (apothecia red)  
 Podetia very gomphaceous.  
 on soil with # 5815

Mass. on Castello's grassy ridge in crevices on intercapping sandstone cliffs. in heavy oaks-chestnut woods. = *Gymnostomum rupestre* Schleich.

Bull Run Mt., Va

Fauquier Co., Dec. 18, 1938

H.G. Allard

5817 (1) *Cladonia hibernaria* f. *molaris* (Hoffm.) Schaeff. Smith of Hafersell Gaf.

(1) on soil in thin oak woods on Triassic Area near Antioch, Va.

Prince William Co.

5818 *Cladonia baillorii* (Aubl.) Nyl.

(1) on soil in same woods near # 5817

ditto

5819 *Cladonia baillorii* (Aubl.) Nyl.

(1) on soil in same woods near # 5817

ditto

5820 Moss on sandstone rocks. near # 5817

ditto

5821 Lichen + moss on sandstone cliffs near # 5817

ditto

5822 *Cladonia cespitosa* (Pers.) Flotz.

(1) on bark of living Chestnut tree on Castello's grassy ridge near # 5817.

ditto

5823 Lichen, thin foliage, black. on flat rocks near # 5817.

Collema glaucescens Hoffm.

ditto

Bull Run Mt., Va

Fauquier Co. Dec. 18, 1938

H.G. Allard

5823 between clumps. " *C. verticillata* f. *erolata* (Th. Fr.) Stere. South of Hafersell Gaf.

5824a *C. subcariosa* Nyl. and *C. cristatella* Th. Both scanty.

5825 *Cladonia* f. *lutea* ditto

" *C. conicaea* f. *erolata* (Th. Fr.) Stere. On rocks (sandstone) on Castello's grassy ridge near # 5817

5826 Lichen (Blanks) very common on rocks interc. near # 5817

ditto

5827 Lichen = *Physcia setosa* (Aubl.) Nyl.

(1) on boughs of chestnut tree in heavy chestnut-oak woods near # 5825

5827a *Physcia setosa* (Aubl.) Nyl.

5828 Moss on rocks in ditto long fern-like fronds; very beautiful on sandstone rocks - in same ridge near # 5825

5829 Moss on sandstone rocks on same ridge with # 5825

ditto

5830 Moss in rock crevices on cliff = *Dicranum plumulum* Hork. ditto

near # 5825

Lichens  
on bark of Chestnut tree  
on High Point cliffs  
5831 very abundant,  
" = *Pertusaria marginata* Nyb.  
Bull Run Mt., Va  
Fauquier Co  
Dec. 18, 1938  
H.A. Allard  
south of Hagerell Gap

5832 *Cladonia tenuis* (Flot.) Harm.  
" reindeer moss ditto  
in low oak woods (thin)  
on Triassic area near Antioch  
Prince William Co

5833 Moss  
on flat rocks well along in ditto  
" oak-chestnut woods on Castello's  
quarry ridge, on thin brown layers.  
common:

5834 Moss  
" on flat rock near # 5833 ditto

5835 Moss *Polytrichum*  
" in crevice on low cliffs at ditto  
quarry on Castello's quarry ridge.

5836 *Cladonia*  
Reindeer moss ditto  
" in same old field of broomedge ditto  
s. of Hagerell gap, in interspaces between  
clumps with # 5789: abundant  
(bare ground)

5837 *Leucobryum glaucum* Bull Run Mt., Va  
" + *Cladonia concreta* f. *cratodes* Prince William Co  
competing with it. On soil on Dec. 26, 1938  
ridge east of High Point Ridge s. of H.A. Allard  
of Hagerell Gap 1/2 mile in this side of  
woods of oak, *Pinus rigida* et. Vain.  
5837a *Leucobryum glaucum* (L.) Schimp.

*Cladonia papillaria* Bull Run Mt., Va  
f. *metacalifornica* (Hoffm.) Schimp. Prince William Co  
Growing near Schaefer Dec. 26, 1938  
5838 # 5837 H.A. Allard

" on crest of ridge (rocky, dry) mixed  
with low growth Oak Chestnut, Black Jack,  
*Pinus rigida*, *Prunus*, *Vaccinium* ~~variolosa~~  
etc.

5839 Moss *Anomodon rostratus* (Hedw.) Schimp.  
" on dead wood on east slope ditto  
of High Point Ridge near foot  
in heavy oak-chestnut, *Tilia* *Populus*  
woods.

5840 *Cladonia squamosa* (Scop.) Hoffm. ditto  
" growing near # 5838  
and *C. caespiticia* (Pers.) Flot.

5841 *Cladonia clavifera* f. *subcretata* Hoffm. ditto  
" growing near # 5839 *Cladonia* Hoffm.  
on roadside banks.

5842 Moss = *Grinnolia pilifera* Beauvois.  
" on flat rock on slope ditto  
near # 5839 and *Grinnolia pennsylvanica* Schimp.  
Schaefer.

5843 Moss = *Dicranum flagellare* Hedw.  
" on bark foot of tree ditto  
near # 5839

5844 Moss *Hedwigia*  
" on bark at base of tree ditto  
near # 5839  
: *Lobaria heterophylla* (Schrad.) Dumb.

*Cladonia papillaria* f. *molariformis* (Hoffm.) Scherz Bull Run Mt., Va  
on soil on crest of dry, Prince William Co  
wooded ridge east of Dec. 26, 1938  
5845 High Point Ridge, H. A. Allard.  
" S. of Haperell Gap  $\frac{1}{2}$  mile  
(near # 5838)

5846 *Cladonia papillaria* f. *molariformis*  
" on soil with # 5845 ditto  
abundant. and f. *papillosa* (L.) Scherz

5847 *Cladonia grayi* Mer. young plants.  
" on soil on banks at foot of ditto  
east slope of High Point Ridge,  
S. of Haperell Gap  $\frac{1}{2}$  mile in heavy  
oak-chestnut woods.

5848 *Cladonia papillaria* (Ehrh.) Hoffm. ditto  
" on soil near # 5845 and  
sterile squamules probably of *C. clavulifera* Wain

5849 *Cladonia caeciticia* (Pers.) Flotzke  
" on bark or dead log near ditto  
# 5847

5850 *Cladonia*  
" on soil near # 5845 ditto

5851 *Cladonia squamosa* (Scop.) Hoffm. and  
" on soil near # 5845 *C. cristatella* Tuck. ditto  
probably a mixture (a true)

*Cladonia squamosa* (Scop.) Hoffm. Bull Run Mt., Va  
Prince William Co  
On old log ditto Dec. 26, 1938  
5852 near # 5845 by H. A. Allard.  
" this but more very distinctive.  
" mixture probably

5853 *Cladonia macilenta* f. *styraecella* (Ach.) Wain, ditto  
" on soil on banks near (Ach.) Wain,  
# 5847

5854 *Cladonia* ditto  
" on soil near # 5845  
very abundant over large areas on  
burned and bare soil.  
5855 = *C. papillaria* f. *molariformis* (Hoffm.) Scherz  
" Mass = *Thelia asprella* (Schimp.) Sull. ditto  
on bark of living tree  
at base near # 5847

5856 Mass  
" very dark green tufts adhering ditto  
very closely to rock surface (sandstone)  
near # 5847.  
a true rock species, rarely fruiting here.

5857 *Cladonia subcariosa* f. *erolita* Wain ditto  
" near # 5845

5858 *Cladonia squamosa* (Scop.) Hoffm. ditto  
" on old decaying log decayed ditto  
near # 5845

*Cladonia calycantha* Deli.  
on soil in oak-chestnut  
woods on east slope of  
5859 High Point Ridge below  
" High Point,  $\frac{1}{2}$  mile S.  
of Hafersell Gap nearly.  
young plants  
butably.

5860 *Cladonia papillaria* f. *molaris* Bull Run Mt., Va  
" on dead log near # 5845 Prince William Co  
very epammlose. ditto

5861 *Cladonia coniocraea* f. *ceratodes* ditto  
" on soil on ridge near (Hoffm) Schaefer  
# 5845 (Hoffm) Schaefer (Hoffm) Schaefer

5862 *Cladonia macilenta* f. *styraecella* ditto  
" on soil near # 5845 (Ach) Rain (Ach) Rain

5863 *Cladonia* ditto  
" on soil near # 5845 ditto

5864 *Cladonia pedmontensis* f. *lepidifera* ditto  
" on soil near # 5845 (Rain) Hoffm (Rain) Hoffm

5865 *Cladonia* ditto  
" on soil near # 5859 ditto

Bull Run Mt., Va  
on soil near Prince William Co.  
Dec. 26, 1938  
5866 \* 5 8 4 5 H.A. Allard.

5867 *Cladonia* on soil with \* 5845 ditto  
" - *C. papillaria* f. *molariformis* (Hoffm) Schaefer

5868 *Cladonia pedmontensis* f. *lepidifera* ditto  
" on east slope near # 5859 (Rain) Hoffm

5869 *Cladonia pleurota* (Förster) Schaefer ditto  
Near # 5859

5870 *Cladonia pedmontensis* f. *lepidifera* ditto  
" on dead chestnut log with (Rain) Hoffm (Rain) Hoffm  
\* 5845 (same as # 5860)

5871 *Cladonia papillaria* f. *molariformis* ditto  
" on soil with \* 5845 (Rain) Hoffm (Rain) Hoffm  
- *C. papillaria* f. *molariformis* (Hoffm) Schaefer

5872 *Cladonia grayi* Mer. ditto  
" on soil near # 5445 ditto

Cladonia. Bull Run Mt., Va  
On soil on road side Prince William Co.,  
bank at foot of Dec. 26, 1938

5 5873 High Point Ridge H.A. Allard  
" " east slope,  $\frac{1}{2}$  mile S. of Hafersell Gap.  
in oaks - chestnut woods  
= Cladonia strepsilis (Ach.) Rain. = thallus.  
The cap is ~~black~~ <sup>black</sup> ~~yellow~~ (Floerke) Schaez.

5 5874 Cladonia  
" " on soil in oaks - chestnut ditto  
woods on dry crest of ridge east of ditto  
High Point Ridge  $\frac{1}{2}$  mile S. of Hafersell Gap.  
- C. hafersellia f. molariformis (Hoffm.) Schaez.  
(near # 5875)  
5 5875 = Cladonia hafersellia f. hafersellia ditto  
" " near # 5875

5876 Cladonia midmontensis f. lepidifera (Mitt.) R. H. H. ditto  
" " on dead wood (log) ditto  
same on ridge near # 5875

5877 Cladonia strepsilis (Ach.) Rain. ditto  
" " on soil near # 5875

5878 Cladonia cristatella Tuck. ditto  
" " (red apothecia)  
on dead wood near # 5875  
+ C. squamosa (Scop.) Hoffm.

5879 Cladonia caespiticia (Pers.) Floerke ditto  
" " on dead wood and lichen  
soil on east slope of High Point  
Ridge near # 5873  
a mixture but largely this.

Cladonia with mosses Polytrichum Bull Run Mt., Va  
Prince William Co., Dec. 26, 1938  
H.A. Allard.

5880 " " on soil near # 5874

5881 Peltigera horizontalis (Huds.) Baumg. ditto  
" " on soil on rocks near  
# 5873

5882 Cladonia squamosa (Scop.) Hoffm. ditto  
" " on soil near # 5874

5883 Moss  
" " on bark of tree on same ditto  
ridge and near # 5874

5884 Cladonia conoverae f. truncata (Floerke) R. H. H. ditto  
" " very pointed, with whitish tips ditto  
" " on soil on rocks  
near # 5874

5885 Cladonia mitrula f. imbricata (Myl.) Rain. ditto  
" " on bare soil on same ridge with # 5874

5886 Cladonia conoverae f. cratodes (Floerke) ditto  
" " on soil in pine woods ditto  
on ridge crest with # 5874 mostly Rain.

## Moss

at foot of tree  
on ridge east of

5887 High Point Ridge

" s. of Hafersell Gap 2 miles  
in oak-chestnut woods  
very dry rocky ridge, an old farm  
with little humus.

5888 *Cladonia squamosa* (Scop.) Hoffm.  
" on soil near # 5887 ditto  
Not very distinctive.

5889 *Cladonia lophocolea heterophylla* (L.) Hoffm.  
" Hepatic Moss  
on bark of tree near " Nelly, Ward, Penn.  
# 5887

5890 *Cladonia* (a) *squamosa* (Scop.) Hoffm.  
" on west slope of ridge below ditto  
cliffs on same ridge near  
# 5887 - on old chestnut log -  
same as # 5860 + 5870 (See)

5891 *Cladonia caespiticia* (Pers.) Flotow  
" on soil near # 5887 ditto

5892 *Cladonia*  
" sharp-pointed, whitish tips ditto  
" on bark of decayed  
log (same as # 5884.)

5893 *Cladonia squamosa* (Scop.) Hoffm.  
" on soil, on same  
ridge with # 5887

Bull Run Mt., Va  
Prince William Co.  
Dec. 26, 1938

H.G. Allard

## Cladonia

on same ridge

5894 near # 5887

"  
= *C. squamosa* (Scop.) Hoffm. but not very  
distinctive.

5895 *Cladonia grayi* (Mer.) ditto  
" on same ridge near  
# 5887

5896 *Baeomyces rovens* Pers.  
" bare soil on crest of *Castilleja* ditto  
grassy ridge near spring; very  
abundant in woods where bare areas  
of soil here.

5897 *Cladonia coniocraea* f. *ceratodes* (Th. & Nyl.) Kain.  
" sharp pointed apothecia with  
whitish tips, same as # 5892  
5897a *Cladonia mitrula* f. *infricatula* (Nyl.) Kain.  
(young)

5898 *Cladonia*  
" sharp pointed apothecia with ditto  
whitish tips (same as # 5892,  
# 5897. + *C. coniocraea* f. *ceratodes* (Th. & Nyl.) Kain.

5899 Lichen  
" fine colonies of small ditto  
black dots on sand stone  
rocks, from very tiny to  
several dots size of pin head  
5900 " very abundant  
on ridge near # 5887

" Moss  
on thin soil on flat rocks on east ditto  
slope of High Point Ridge in heavy  
oak-chestnut woods below High Point.  
These mats lift off readily.

## Bull Run Mt., Va

Dec. 26, 1938

Prince William Co.  
H.G. Allard.

Lichen  
Peltigera  
on east slope of  
High Point Ridge  
below High Point  
in soil in heavy oak-chestnut woods.  
(abundant)

Bull Run Mt., Va  
Prince William Co  
Dec. 26, 1938  
H.A. Allard.

5 5901 " Moss  
on flat rocks near # 5901. ditto  
forming large, pure mats easily  
detached, often loosely laying  
upon the rocks; color dark green  
(abundant)

5902 Moss  
" on flat rocks near # 5901. ditto  
forming large, pure mats easily  
detached, often loosely laying  
upon the rocks; color dark green  
(abundant)

5903 Moss  
" forming extensive mats (thin)  
on rocks, banks etc. in woods near # 5901. ditto  
light yellowish green; abundant

5904 Moss  
Polytrichum  
on flat rocks near # 5901. ditto  
on banks, rotten wood, rocks forming  
large, pure colonies; abundant.

5905 Moss Hypnum  
" on flat rocks near # 5901. ditto  
abundant on banks etc in woods; color yellowish green; woods fern-like.  
Very beautiful; abundant.

5906 Moss  
Catherina?  
On rocks near # 5901. ditto  
color light shining green; leaves delicate.  
abundant in damp places, woods etc.

5907 Mosses  
" Two  
On dead wood on old logs ditto  
in woods near # 5901.

Moss on dead log  
in woods near # 5901  
abundant.

Bull Run Mt., Va  
Prince William Co  
Dec. 26, 1938  
H.A. Allard.

5908 " ditto

5909 Moss  
on dead stump in  
woods near # 5901. ditto

5910 Moss  
on decayed log in woods ditto  
near # 5901

5911 Cladonia  
one of reindeer mosses.  
" On crest of ridge east of High Point  
ridge  $\frac{1}{2}$  mi. S. of Hopewell Gap. in  
thin pine stand here = P. nigra,  
ad P. morganae mostly

5912 Cladonia rangiferina  
" Growing beside # 5911, not  
common in Bull Run Mt; very  
local. on pine duff and bare  
soil here where this specimen was found.  
(My first record for Bull Run Mt.)

5913 Cladonia  
(reindeer moss)  
Growing with # 5912  
abundant.

5914 Cladonia rangiferina  
" Growing with # 5912. ditto

*Cladonia bairdii* (Ach.) Nyl. Bull Run Mt., Va  
on rotten wood on ridge N.E. of Beverly Mill January 1, 1939  
east of valley road. Prince William Co.,

5915 just N. of railroad. H.A. Allard  
a thin pine stand. Prince William Co.,  
of Prince Virginia here. Harbor  
lined with much bare soil covered with  
lichens. *Cladonia*. tiny red apothecia  
at tip of recurved whitish sorediate podetia

5916 *Cladonia grayi* f. *squamulosa* Sandst. ditto  
" on soil near # 5915  
cups, very proliferous, very squamulose

5917 *Cladonia cristatella* Tuck. ditto  
" apothecia red  
on soil with # 5915

5917A: *C. grayi* f. *squamulosa* Sandst. rain  
*Cladonia maurilenta* f. *styryacella* (Ach.) K. T. K. ditto  
" same shape as # 5915.  
" on old log with it  
and *C. conicrea* (T. Börke) Sandst. K. - and P.

5919 *Cladonia grayi* f. *squamulosa* Sandst. ditto  
" on soil with # 5915

5920 *Cladonia cristatella* Tuck. ditto  
" apothecia red  
podetia very squamulose.  
on humus soil near # 5915

5921 *Cladonia verticillata* f. *phylocephala* (T. Börk.) Ols.  
*verticillata* forma. ditto  
on soil near # 5915

*Cladonia grayi* Mer.

some cups, very  
squamulose

5922 some with brown apothecia  
" " brown  
on soil near # 5915

Bull Run Mt., Va  
January 1, 1939  
Prince William Co.  
H.A. Allard

5923 *Cladonia verticillata* f. *phylocephala* (T. Börk.) Ols. ditto  
" same cups, very squamulose  
" some with brown apothecia  
and with # 5915  
*C. grayi* f. *squamulosa* Sandst.

5924 *Cladonia squamosa* (Scop.) Hoffm. ditto  
*verticillata* but not distinctive, ditto  
" forma  
near # 5915 on soil

5924a: *C. subcariosa* f. *squamulosa* Roffm.  
5925 *Cladonia verticillata* f. *phylocephala* (T. Börk.) Ols. ditto  
" same as # 5924  
near # 5915

5926 *Cladonia cristatella* f. *rectita* Tuck. ditto  
" apothecia red  
podetia much branched above  
crossing near # 5915

5927 *Cladonia verticillata* f. *phylocephala* (T. Börk.) Ols.  
" apothecia brown  
podetia very squamulose ditto  
near # 5915

5927a: *C. cristatella* f. *rectita* Tuck. mostly ditto  
5928 *Cladonia* slender curved at tip ditto  
" podetia slender  
whitish near # 5915  
*maurilenta* f. *styryacella* (Ach.) Ols.

*Cladonia strepsilis* (Ach.) Wain <sup>on soil</sup> Bull Run Mt., Va  
In pine grove on ridge just N. of rural Prince William Co  
edge east of valley H.G. Allard.  
5929 road line (E of Beverly Mill)  
"1 apothecia brown, protelia very squamulose

5930 *Cladonia strepsilis* (Ach.) Wain. ditto  
"1 apothecia brown  
(very squamulose)  
on soil near # 5929.

5931 *Cladonia verticillata* f. *phylocephala* (Flot.) Ols.  
very proliferous  
apothecia brown  
on soil near # 5929

5932 *Cladonia papillaria* f. *stictata* (Flot.)  
"1 on soil near # 5929 ditto

5933 *Cladonia taillaris* (Ach.) Nyl. P- and *Cladonia*  
"1 on rotten wood near # 5929 ditto  
← *convergens* (Flot.) Sandst. P+

5934 *Cladonia mamillosa* f. *styraeella* (Ach.) Wain  
"1 on humus soil near # 5929 ditto

5935 *Cladonia strepsilis* (Ach.) Wain  
"1 on soil near # 5929 ditto

*Cladonia claviflora*  
on humus soil  
near # 5929

5936

"1  
f. *subresticta* Roffm.

5937 *Cladonia claviflora*, f. *indicantha*? ditto  
"1 (apothecia brown)  
on soil near # 5929  
"1 *indicantha* Evans  
"1 *resticta*

5938 *Cladonia subcariosa* Nyl.  
"1 mostly *afodocarpa*? ditto  
on soil near # 5929

5939 *Cladonia claviflora* f. *subresticta* Roffm. ditto  
"1 on soil near # 5929  
apothecia brown  
(protelia very squamulose)  
5939A: *C. subcariosa* Nyl.

5940 "1 *Moss* on dead wood near # 5929 ditto

5941 *Cladonia cristatella* f. *vestita* (Ach.) Nyl. ditto  
"1 apothecia red  
protelia some squamulose  
"1 near # 5929  
5941A: *C. cristatella* f. *styraeella* (Ach.) Wain.

5942 *Cladonia grayi* Mer.  
"1 on soil near # 5929 ditto  
"1 Wain

Cladonia  
In pine grove just N. of  
road below E. of  
Beverly Mill and  
H.A. Allard  
5943 E. of valley road here.  
(1) on soil  
= Cladonia chlorophaea f. lepidophylla (Flotke) Sandst [P+  
and C. grayi f. squamulosa Sandst]

5944 → Cladonia cristatella f. vestita Tuck.  
" afrothecia red ditto  
5944A, + one with cups  
modestia branched alone (with red  
afrothecia)  
and C. grayi near # 5943

5945 Cladonia grayi f. simplicifolia Robbins  
" on humus soil cups ditto  
and C. grayi f. squamulosa Sandst.

5946 Cladonia chlorophaea f. carpathica ditto  
" on humus soil with # 5943 (Flotke)

5947 Cladonia verticillata f. phyllocephala (Flotke) ditto  
verticillata and a tree of C. grayi Mer. Obi.  
" very squamulose x  
Near # 5943 on soil.

5948 Cladonia grayi Mer.  
" (cups) ditto  
on humus soil near # 5943

5949 Cladonia cristatella f. vestita Tuck.  
modestia much branched above ditto  
with tiny red afrothecia,  
squamules also with tiny red  
afrothecia.  
on soil near # 5943

Cladonia hibernaria f.  
papillaria Bull Run Mt., Va  
January 1, 1939  
Prince William Co  
H.A. Allard  
5950 " on soil near # 5943 Prince William Co  
H.A. Allard,  
" solariformis (Hoffm.) Schaer,  
afrothecia f. stipata Flotke.

5951 Cladonia verticillata f. phyllocephala ditto  
verticillata forma Obi.  
Growing near # 5943  
5951a = C. grayi Mer.  
Moss ditto

5952 Cladonia verticillata f. phyllocephala (Flotke) Obi.  
" brownish colored  
" on dead wood near # 5943

5953 Cladonia verticillata (Hoffm.) Schaer, mostly ditto  
on soil near # 5943  
some sp. as # 5951 Long Island  
" mostly Obi.

5954 Cladonia verticillata f. phyllocephala ditto  
very squamulose modestia  
some sp. as # 5951  
growing with # 5943 mostly Obi.

5955 Cladonia grayi Mer. mostly ditto  
some sp. as # 5951  
also large stalks of C. verticillata f. phyllocephala (Flotke) Obi. present

5956 Cladonia grayi f. simplicifolia ditto  
" cups with tiny afrothecia  
around edge  
Near # 5943  
5956A = C. grayi f. simplicifolia.

5957: *Cladonia verticillata* Spreng. (Th. Fries) Stein  
5957a = *verticillata* f. *phylocephala* (Flot.) Bull Run Mt., Va  
in pine grove on ridge east of valley January 1, 1939  
Prince William Co

5957 wood just below (E) of Beresley Mill H. A. Allard.  
ad N of railroad.

This extends to an old grave yard and  
beech grove a few hundred yards east  
of old cellar site where dying myrtle tree  
stood - ad large black walnut tree.

5958 (1) *Cladonia strepsilis* f. *coralloidea* (Ach.) Wain.  
(apothecia brown) ditto

~~5957~~ on soil on High Point ridge  
near High Point in oak-chestnut woods here  
(very squamulose)

5959 Moss  
(1) on thin brown soil on rock  
shelf at High Point, north of Beresley Mill  
1/2 mile.

5960 Hepatic: *Scapania nemorosa* (L.) Dum.  
(1) on soil in oak-chestnut woods  
on east slope of High Point ridge  
near Beresley Mill.

5961 *Cladonia*?  
(1) crustose, yellowish green  
on same rock shelf with # 5959 ditto

5962 *Cladonia* (very squamulose)  
(1) on soil with # 5960 ditto  
= *Cladonia strepsilis* f. *coralloidea* (Ach.) Wain.

5963 Moss or hepatic  
(1) on soil in woods on High Point  
ridge (east slope) near High Point  
north of Beresley Mill 1/2 miles.  
= *Scapania nemorosa* (L.) Dum.

*Cladonia*  
on soil with

5964 \* 5959

(1)

*Cladonia conica* f. *ceratodes* (Förster) Wain.

5965 Moss

(1) on rotten wood in oak  
chestnut woods near High Point

ditto

5966 *Cladonia rangiformis* (L.) Wrb. ditto

(1) on rock shelf with # 5959  
My second records, first for High Point  
see # 5912

5967 *Baeomyces* (thallus)

+ liverwort moss  
(1) *Scapania nemorosa* (L.) Dum.  
Near # 5960

5967a = *Pertusaria postulata* (Ach.) Duby.

5968 *Cladonia*? *Parmelia saxatilis* (L.) Ach. ditto

(1) on black brown soil  
with # 5959

5969 <sup>1/4 acre</sup> (brownish)

(1) on dead log in oak-chestnut  
scrub near # 5963 -

5970 Moss

(1) on dead wood on east slope  
of High Point ridge near # 5963

*Cladonia*  
in pine grove on ridge  
1/4 mi. N of Concordia Rd  
5971 sub of valley road  
" crossing track  
" just below (east) of Reesley Mill  
*Cladonia chlorophcea f. lepidophora (Flot.) Spreng.*  
P+

**5972** *Cladonia*  
" on soil with \* 5971 ditto  
= *C. grayi* f. *simplex* Robbins. P-

5972a = *C. nitridula* f. *nitricatula* (Nyl.) Vain.  
5972b = *C. isthmioides* f. *alboidea* (Ach.) Vain.

**5973** *Cladonia*  
5973b = *C. chlorophcea* (Flot.) Spreng. P-  
5973c = *C. chlorophcea* (Flot.) Spreng f. *grayi* Mer. P- ditto  
" *C. verticillata* f. *phylocephala* (Flot.) Ohl.  
5973a = " f. *erecta* (L.) Fr. Stein ad f. *apothicta* (Ach.) Vain.

**5974** *Cladonia* 5973d = *C. grayi* Mer. P-  
on soil near \* 5971 ditto  
= *C. verticillata* f. *erecta* (L.) Fr. Stein.

**5975** *Cladonia*   
" on soil near \* 5971 ditto  
= *C. grayi* f. *simplex* Robbins. P-

**5976** *Cladonia*  
" 5976b = *C. verticillata* f. *phylocephala* (Flot.) Ohl. ditto  
on soil near \* 5971  
= *C. verticillata* f. *phylocephala* (Flot.) Ohl.  
5976a = " P.P. f. *apothicta* (Ach.) Vain.

**5977** *Cladonia*  
" on soil near \* 5971 ditto

Bull Run Mt. Va  
January 1, 1939  
Prince William Co.  
H.G. Allard  
5978 \* 5971  
" )

**5979** *Cladonia* ditto  
" on soil near \* 5971 )

**5980** *Cladonia tenuis* (Flot.) Harm. ditto  
" on soil near \* 5971 )

**5981** *Cladonia*  
" on soil near \* 5971 ditto )

**5982** *Cladonia*  
(apothecia of one sp. red  
Near \* 5971 ditto )

**5983** *Cladonia*  
" on soil near \* 5971 ditto )

**5984** *Cladonia*  
" on soil near \* 5971 ditto )

Cladonia  
In pine grove just north Bull Run Mt., Va  
of railroad in Prince William Co  
5985 ridge just east Prince William Co  
" of valley road crossing H.A. Allard  
Trunks below east of Bexley Mill.

5986 Cladonia  
" On soil with \* 5985 ditto

5987 Cladonia   
" On soil near \* 5985 ditto

5988 Cladonia  
" On soil near \* 5985 ditto

5989 Cladonia  
(afatheria red)  
" On soil near \* 5985 ditto

5990 Cladonia   
very squamulose  
On soil near \* 5990 ditto

5991 Cladonia  
" On soil near \* 5985 ditto

Cladonia cristatella f.  
(afatheria red)  
Bull Run Mt., Va  
January 1, 1939  
5992 Prince William Co  
" On soil near \* 5985 and  
and 5992 A = C. cristatella f. leucoxantha (Flot.) hair  
5992 B = C. chlorophaea f. simplex (Hoffm.) Arn. P+  
5993 Cladonia (the same with caps)  
" On soil near \* 5985 ditto

5994 Cladonia caespiticia (Pers.)  
" On soil near \* 5985 ditto  
5994 A = C. afodocarpa Robbins mostly.

5995 Cladonia papillaria f. stictata  
" On soil near \* 5985 ditto  
" On soil near \* 5985 ditto

5996 Cladonia  
" On soil near \* 5985 ditto

5997 Cladonia  
" On soil near \* 5985 ditto

5998 Cladonia  
" On soil near \* 5985 ditto

*Cladonia* ♀  
 In pine woods on  
 ridge just Nth of  
 5999 road to the  
 valley road crosses  
 tracks just below (E.) of Beverly Mill and  
 east of valley road.  
 on soil

Bull Run Mt., Va  
 January 1, 1939  
 Prince William Co.  
 H.A. Allard

---

6000 *Cladonia*  
 " red apothecia; medulla  
 very granular)  
 on soil near # 5999

ditto

---

6001 *Cladonia*  
 " on soil near # 5999

ditto

---

6002 *Cladonia*  
 on soil near # 5999

ditto

---

6003 *Cladonia*  
 on soil near # 5999

ditto

---

6004 Moss  
 in narrow vertical crevices  
 " on rock cliffs at High Point  
 just below highest outcrop - on shelf  
 near 5959 gear.

---

6005 *Cladonia cristatella* f. *vestita* Sch. & Th.  
 (apothecia red)  
 on soil near # 5999

ditto  
 and *S. heimii*  
 (Sch.) Brum.

*Cladonia damifera*, Bull Run Mt., Va  
 on soil near January 1, 1939  
 H.A. Allard

---

6006 X 5999  
 " 6006A = *C. subcariosa* Nyl. not definite as to form.

---

6007 *Cladonia grayi* f. *simplex* ditto  
 " on soil near # 5999 ditto  
 6007a = *C. verticillata* f. *erolata* (Th. Fr.) Stein.  
 6007B = *C. chlorophaea* (T. Werke) Sprung.

---

6008 on dead wood *Cladonia* ditto  
 near # 5999  
*C. macilenta* f. *styraecella* (Ach.) Brum.

---

6009 *Cladonia verticillata* f. *phylocephala* ditto  
 " on soil near # 5999

6010
b = *C. verticillata* (+ offn.) Schae. Not distinctive
6010
c = *C. chlorophaea* f. *simplex* (Hoffm.) Brum.
6010
d = *C. chlorophaea* f. *simplex* (Hoffm.) Brum.

---

6010 *Cladonia verticillata* f. *phylocephala* ditto  
 " on soil near # 5999 plus f. *apertula* (Th. Fr.) Ohr.  
 and f. *erolata* (Th. Fr.) Ohr.

6010
a = *C. verticillata* f. *phylocephala* (Th. Fr.) Ohr.
6010
small and resembling *C. calyculata* (Th. Fr.) Stein.
6010
Cladonia *calyculata* Del. Ohr. rather

---

6011 " on soil near # 5999 ditto

---

6012 *Cladonia* ditto  
 " on soil near # 5999

Cladonia   
In pine woods on  
ridge just East  
of valley road  
where it crosses railroad track  
Berkeley Mill.  
On soil near #

6014 Cladonia  
" on soil near # 6013  
(apothecia brown)

6015 Cladonia  
" On soil # 6013  
(red apothecia; very squamulose)

6016 Cladonia   
" On rotten wood  
near # 6013

6017 Cladonia subcariosa f. squamulosa ditto  
" On soil near # 6013  
6017a = C. chlorophylla (Hoerke) Streng. and C. squamulosa Roff.  
6017b = C. grayi (Hoerke) Scher. (cup) and C. subcariosa Nyl.  
6017c = C. grayi Nyl.

6018 Cladonia grayi f. simplicifolia Roff. ditto  
" On soil near # 6013

6019 Cladonia verticillata (Hoffm.) Scher. ditto  
(apothecia red) distinctive astroturf not  
on soil near # 6013

Bull Run Mt., Va  
January 1, 1939  
H. G. Allard  
Prince William Co

Cladonia  
on soil near # 6013

6020  
"

6021 Cladonia  (Ach. Nyl.) ditto  
" On soil near # 6013

6022 Cladonia verticillata (Hoffm.) Scher. ditto  
(apothecia brown) not distinctive astroturf.  
On soil near # 6013

6023 Cladonia mitrula f. intricata (Nyl.) Scher. ditto  
(apothecia brown)  
" On soil near # 6013

6024 Cladonia  
On soil near # 6013 ditto  
"

6025 Moss  
" On dead wood near # 6013 ditto

6026 Moss = Scaevola nemoralis (L.) Gray ditto  
" Hepatic  
On soil near # 6013  
Cladonia Mixture of lads, not def. enough to det.

Cladonia  
 on soil in thin pine  
 wood on ridge N.E. of  
 6027 Bexley Mill  
 " near road  
 " This just east of valley road leading to  
 Hulme's Cat below Costello's

---

6028 Cladonia baileyi (Ach.) Nyl. *Podetia* narrow  
 " on thin soil near # 6027 ditto  
 and *C. cespiticia* (Pers.) H. Loerke. mostly

---

6029 Moss  
 " on soil and rotten wood ditto  
 with # 6027

---

6030 Cladonia verticillata (Hoffm.) Schaeff. ditto  
 " on soil near # 6027 distinct as to form

---

6031 Cladonia  
 on soil near # 6027 ditto

---

6032 Cladonia  
 on soil near # 6027 ditto

---

Cladonia mucialis (L.) Web.  
~~minches mass~~

---

6033 (peculiar, low, compact)  
 " on rock shelf at High Point  
 just below highest outcrop  
 (with # 5959) <sup>2</sup> Cladonia mucialis (L.) Web.  
 (appears different from others in Bull Run Mt.)

Rock lichens  
On sandstones and  
quartzites (Wesertown,  
6041 Cambrian) at  
High Point N. of  
Beverley Mill 1½ miles

6042 Rock lichens  
" growing with \* 6041

6043 Rock lichens  
" growing with \* 6041

6044 Rock lichens  
" growing with \* 6041

6045 Rock lichens  
" growing with \* 6041

6046 Rock lichen  
" a close, black species in  
patches, appearing like small  
patches on the rocks: very abundant  
near \* 6041

6047 Moss: silvery color  
" in crevices of rock outcrops  
directly in front of Beverley Mill  
across railroad on cut here.

Bull Run Mt. Va  
Fauquier Co  
January 1, 1939  
H.G. Allard

Moss  
in rock crevices  
near \* 6047  
6048  
" "

6049 Moss  
" green  
" in same place near \* 6047

6050 Moss  
" in same place near \* 6047

6051 Moss  
" in rock crevices near  
\* 6047

6052 Moss  
" in rock crevices near  
\* 6047

6053 Moss  
" in rock crevices near \*  
6047

6054 Moss  
" in rock crevices opposite  
Beverley Mill with \* 6047

Bull Run Mt., Va  
Fauquier Co  
January 1, 1939  
H.G. Allard.

Moss  
on soil in thin pine  
woods on ridge N.E. of  
Beverly Mill, near  
6055 railroad & just  
" East of valley road to Hapewell Gap.

Moss and Liverwort.  
6056 on moist soil of break  
bank before little cemetery  
" shore creek goes in, ie  
N.E. of Beverly 1 mile

6057 Moss  
" on same break bank  
near #6056,  
very beautiful, fern like, large, ~~as~~

6058 Moss  
" on same break bank  
with #6057

6059 Moss  
" on soil in pine woods  
with #6055  
*Leucobryum albidum*

6060 Moss  
on dead wood near  
" #6055

6061 Moss  
" on dead wood near #6055 ditto

Bull Run Mt., Va  
January 1, 1939  
H.G. Allard  
Prince William Co  
6062 " on soil and  
dead wood near #6055.

Moss  
on soil in thin pine  
woods on ridge N.E. of  
Beverly Mill, near  
6055 railroad & just  
" East of valley road to Hafencell Gap.

Bull Run Mt., Va  
January 1, 1939  
H.G. Allard  
Prince William Co

6065 e = *Cladonia squamosa* f. *phyllotricha* (Reichenb.) Hoffm.  
6065 f = " "  
6065 g = " "

Moss  
*Lencohynum albidum* Bull Run Mt., Va  
January 1, 1939  
H.G. Allard  
Prince William Co

6062 " on soil and  
dead wood near # 6055.  
(abundant here in pines)

6063 *Cladonia* (reindeer moss) ditto  
" common in pine woods  
near # 6055; a common species  
(here)

6064 Moss  
" *Lencohynum albidum* ditto  
Dr. cresces on cliff at High Point,  
often completely filling these with  
This moss on nearly vertical walls  
as a line of green down the rock face.

6065 *Cladonia squamosa* (Scop.) Hoffm. Bull Run Mt., Va  
on damp rocks January 8, 1939

6065 f  
6065 g  
6065 d  
" 181 sloping to horizontal, Tanguier Co  
loosely on humus, soil at foot of High Point cliff H.G. Allard,  
1 mile S. of Hafencell Gap, very squamous,  
dense mats. *Podetia* spider hollow at  
tip of 6065. *C. squamosa* (Scop.) Hoffm.  
not distinctive as to form;

6066 " 181  
Ident. 6065  
*Cladonia* same as 6065, but " *C. squamosa* (Scop.) Hoffm. ditto  
crossing over and completely  
swallowing the moss with a  
dense mat of squamous

6067 " 21  
dense mat of squamous  
for 3 cm. moss completely hidden  
hollow. = *Cladonia squamosa* (Scop.) Hoffm.

Lichen (crustose)  
on soil on rock shelf below  
High Point cliffs ditto

6068 " *Cladonia squamosa* (Scop.) Hoffm. Not distinctive  
as to form.  
On humus soil on base of sloping  
rocks at foot of High Point cliffs,  
near # 6067 ditto

Lichen  
On underside of  
rock shelf at High Point  
6069 cliffs; color yellow.  
"1

Bull Run Mt., Va  
Fauquier Co  
January 8, 1939  
H. A. Allard

6070 *Cladonia didyma* f. *subulata* (L.) Mitt.  
"1 slender, whitish, <sup>per.</sup> ditto  
hairy, sorediose, <sup>main</sup>  
On dead wood on High Point  
cliffs near #6069

6071 *Cladonia maurita* f. *styphella* (Ach.) Mitt.  
"1 On soil or dead wood <sup>per.</sup> ditto  
at High Point Cliffs. very sorediose

6072 Lichen small clustered  
greenish, fruticose ~~on vertical~~ <sup>on</sup> ditto  
on vertical grayish rocks  
on upper portion High Point cliffs.  
Not abundant here. *Ramalina formosa* (L.) Ach.

6073 On stems of *Kalmia latifolia*  
"1 at High Point cliffs. ditto  
(*Nephromopsis ulicis* (Ach.) Hne. (sent to Evans by mistake  
as was 6072.

6074 Lichen  
On soil on shelf at foot of ditto  
High Point cliffs. crustose.

6075 Moss  
"1 on rotten wood at ditto  
High Point cliffs.

Moss  
on rocks - adhering <sup>Bull Run Mt., Va</sup>  
too tightly to remove. January 8, 1939  
6076 On High Point cliffs <sup>Fauquier Co.,</sup> H. A. Allard  
"1

6077 *Cladonia* on rock  
adhering too tightly to rock ditto  
"1 to remove - on vertical rock faces  
at High Point cliffs.  
*Cladonia grayi* f. *afferrans* Gaertn.  
(contains Grayanic acid but is P.)

6078 <sup>top of rock lichen from</sup>  
"1 High Point cliffs ditto

6079 Rock lichens from High Point cliffs.  
The dark one on vertical  
faces of more grayish rocks, forming ditto  
small angular patches about the  
size of a dollar or smaller

6080 Rock lichens (top) from ditto  
High Point cliffs.

6081 Rock lichens (top) ditto  
from High Point cliffs.

6082 Moss  
"1 on dead wood in woods ditto  
at High Point cliffs.

1939  
On soil in Castello's  
field high up on  
slope just west of  
the flagstone quarry  
and spring at Haferell Caf.

Bull Run Mt., Va  
January 8, 1939  
Tranquill Co.,  
H.A. Allard

6084 Moss  
On dead log in oak-forest  
" woods at High Point Cliffs. ditto

6085 Moss  
On soil near # 6083, in  
" same field. ditto

6086 Moss  
" On thin soil on rock  
at High Point Cliffs ditto

6087 Moss  
" On thin humus soil on  
rock at High Point Cliffs. ditto

6088 Moss  
" On thin humus soil on  
rock at High Point Cliffs ditto

6089 Cladonia cristatella f. verticillata  
" On soil in thin sandy soil  
with rocks. Bull Run Mt., Va  
January 29, 1939  
H.A. Allard

6089A. C. cristatella f. verticillata  
" On rocks near High Point just  
below High Point just  
west of barn and old  
house near Haferell to  
Bull Run roadway. Tranquill Co.

Cladonia strepsilis (Ach.)  
on tree bark at base of tree

6090 Tree  
" near # 6089.

Bull Run Mt., Va  
Tranquill Co  
H.A. Allard  
Jan. 29, 1939  
in woods, near slope  
below High Point.  
" uncertain.

6091 Cladonia sp. (not enough to test) ditto  
" on soil near # 6089  
apothecia red; hypothecia very squamulose

6092 Cladonia subcariosa f. squamulosa  
" apothecia brown ditto  
on soil near # 6089 Roffins.

6093 Cladonia subcariosa f. squamulosa  
" on soil near # 6089 Roffins. ditto

6094 Cladonia subcariosa f. erulata main  
" apothecia brown ditto  
on soil with # 6089

6095 Lichen  
" - rather small  
on rocks at High Point. ditto

6096 Gyrophora vellea. ?  
" on rocks at High Point  
competing with Umbilicaria postulata ditto

Lichen  
Umbilicaria protulata Bull Run Mt., Va.  
Fauquier Co.

west slope below High Point  
January 29, 1939

6097 On rocks on High Point - north H.A. Allard.

(31) and very abundant, competing with Gyrophara parallela here.

6098 Moss.  
" On rocks various and coarse  
" on low boulder in mossy nest  
slope below High Point, dark  
black green. A nice species

ditto

6099 Cladonia ditto  
" (reindeer moss)  
on soil in thin, open young  
second growth moss at foot of  
High Point, west slope just east of  
old barn & mansion -

ditto

6100 Grimmia ditto  
" Moss.  
On flat rocks near # 6098

ditto

6101 Moss  
" On rocks in woods near ditto  
# 6098

ditto

6102 Moss  
" On bark, base of tree ditto  
near # 6098

ditto

6103 Moss  
" on soil & rocks, dead  
wood etc near # 6098.

ditto

6098  
6099  
6100  
6101  
6102  
6103

January 29, 1939. To Hafersell Gap, Bull Run Mt., Va.  
Rain all day from 10 A.M. on. Leave  
at 2 P.M.; rainfall heavy then.

all higher plants other than Bull  
Run in this book entered under  
proper families with collection  
numbers, (see large book naming  
plants and copied by Mrs. E.C. Leonard  
~~6092~~ 4872 - 6471 inc (h 150)

This done July 19, 1940.

all higher plants of Bull Run area  
entered under families with numbers to  
end of this field collection book.

All higher plants in this book  
other than Bull Run card indexed  
to end March 1941.

All higher plants - ie all green  
plants, ferns, lycopods etc, except  
lichens, mosses and hepaticas from  
Bull Run area card indexed and  
checked March 11, 1941.

2 symbol = checked.

No lichens, fungi, masses or bermants  
checked 2 a card indexed March 11,  
1941.

